Traditional Lamp & Ballast Catalog

GE current
a Daintree company

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Relax

Current Traditional Lamps and Ballasts provide unmatched ***peace of mind.***

COMPLETE

Current Lighting continues to offer the most popular Traditional products covering a wide range of Linear Fluorescent, High Intensity Discharge, Compact Fluorescent, Halogen, Incandescent and Ballast applications.

DEPENDABLE

Our engineering leadership over the years in Traditional Lighting has resulted in products that provide the exceptional light quality that you know and love.

TRUSTED

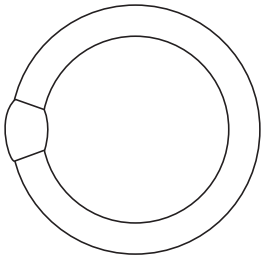
A reputation for quality and reliability is our legacy from Current. We continue that proud tradition today.

Linear
Fluorescent Lamps

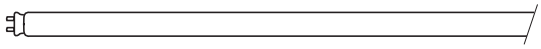
Linear Fluorescent Lamps

Linear Fluorescent lighting, first introduced by GE in 1939, continues to offer low operating costs and long life.

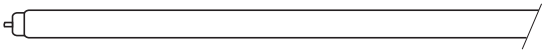
Lamp **Locator** (not drawn to scale)



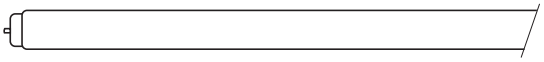
T9 Circline (1-1/8'' diameter) 4-Pin Base (G10q)



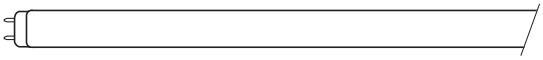
T5 (5/8'' diameter) Miniature Bi-Pin Base (G5)



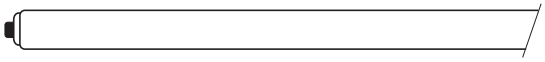
T6 (3/4'' diameter) Single Pin Base (Fa8)



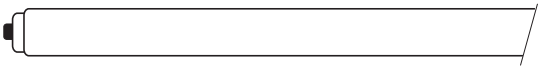
T8 (1'' diameter) Single Pin Base (Fa8)



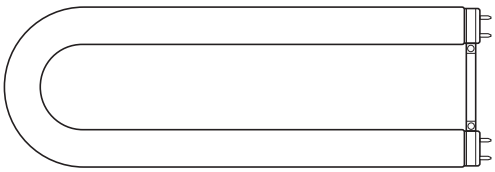
T8 (1'' diameter) Medium Bi-Pin Base (G13)



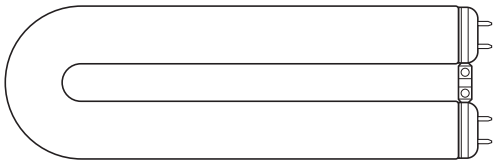
T8 (1'' diameter) Recessed Double Contact Base (R17d)



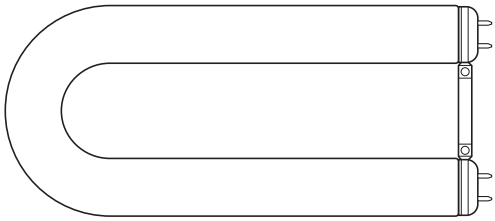
T10 (11/4'' diameter) Recessed Double Contact Base (R17d)



Mod-U-Line® T8/U6 (1'' diameter) Medium Bi-Pin Base (G13)

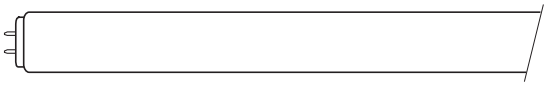


Mod-U-Line® T12/U3 (1 1/2'' diameter) Medium Bi-Pin Base (G13)



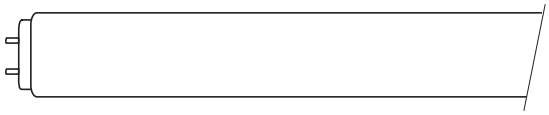
Mod-U-Line® T12/U6 (1-1/2'' diameter) Medium Bi-Pin Base (G13)

T12 (1-1/2'' diameter) Single Pin Base (Fa8)

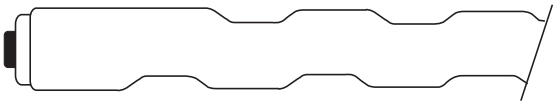


T12 (1-1/2'' diameter) Medium Bi-Pin Base (G13)

T12 (1-1/2'' diameter) Recessed Double Contact Base (R17d)

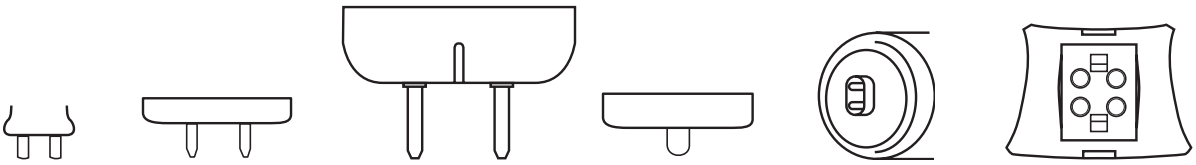


T17 (2-1/8'' diameter) Mogul Bi-Pin (G20)



Power Groove® (2-1/8'' diameter)
Recessed Double Contact Base (R17d)

Lamp **Locator** (not drawn to scale)



Min BiPin G5 | **Med BiPin G13** | **Mog BiPin G20** | **Single Pin Fa8** | **Recessed Double Contact R17d** | **4-Pin G10q (Circline)**

Headings in this **Catalog Section**

The following terms and descriptions can help you when checking Fluorescent lamp specifications and when ordering products. Within each product line, lamps are divided into families, within these families, lamps are then listed by wattage, then bulb, and then by base. There are exceptions to this ordering among the specialty lamps listed.

Mean Lumens:
Lamp light output at 40% of rated lamp life or 8K hours for lamps exceeding 20K hours life.

Color Temperature Kelvins (K):
A measure of the visual "warmth" or "coolness" of the light from the lamp. The higher the value, the whiter or "cooler" the light appears.

Order Code:
It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.

Color Rendering Index (CRI or R):
An indication of the ability of the lamp to render object colors in a normal, natural way. The higher the number (0-100), the better the color appearance.

Nominal Length (in):
Lamp length including base and/or pins.

Initial Lumens:
Lamp light output after the initial 100 hours of operation.

Watts:
Energy used (as defined by FTC Lamp Label Rules). To estimate energy consumption (kWh), multiply watts x hours of use and divide by 1000.

Rated Life – Hours:
Lamp burning hours to median life expectancy.

High Color Rendering:
Indicates that this is a lamp with high color rendering, which helps objects and persons illuminated to appear more true to life.

Bulb Shape:
Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch).

Case Quantity:
Number of product units packed in a case.

Footnotes:
Related footnotes, see page 4-26

Base:
The type of base.

Description:
The lamp's identification code.

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (3hr/ Start)	Rated Life (12hr/ Start)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Footnotes
T5 Starcoat Ecolux® Lamps														
High Efficiency														
T5	Miniature Bi-Pin (G5)	14	21.6	31590	F14W/T5/830/ECO	40	30000	36000	135	1240	3000	85		

F 14W/T5/830/ ECO

- F — Identifies as Fluorescent lamp.
- 14W — Identifies either the lamp's wattage or its length in inches.
- T5 — Identifies the lamp shape and the bulb diameter in eighths of an inch.
- 830 — Identifies the lamp finish or color.
- ECO — Identifies TCLP compliance.

Hg

Lamp Contains Mercury.
Manage in Accord with Disposal Laws.
See **www.lamprecycle.org** or **1-800-327-0097**

Linear Fluorescent Lamps

T5 STARCOAT **ECOLUX® LAMPS**

Bulb Shape	Base	Watts	Nominal Length (in.)	Order Code	Description	Case Qty	Rated Life (3hr/ Start)	Rated Life (12hr/ Start)	Initial Lumens	Mean Lumens	Color Temp K	CRI
T5 High Efficiency												
T5	Miniature Bi-Pin (G5)	14	21.6	31590	F14W/T5/830/ECO	40	30,000	36000	1350	1240	3000	85
		14	21.6	46671	F14W/T5/835/ECO	40	30,000	36000	1350	1240	3500	85
		14	21.6	46673	F14W/T5/841/ECO	40	30,000	36000	1350	1240	4100	85
		21	33.4	46677	F21W/T5/830/ECO	40	30,000	36000	2100	1930	3000	85
		21	33.4	46684	F21W/T5/835/ECO	40	30,000	36000	2100	1930	3500	85
		21	33.4	46687	F21W/T5/841/ECO	40	30,000	36000	2100	1930	4100	85
		28	45.2	46704	F28W/T5/830/ECO	40	30,000	36000	2900	2660	3000	85
		28	45.2	46705	F28W/T5/835/ECO	40	30,000	36000	2900	2660	3500	85
		28	45.2	46706	F28W/T5/841/ECO	40	30,000	36000	2900	2660	4100	85
		28	45.2	46707	F28W/T5/850/ECO	40	30,000	36000	2750	2530	5000	85
		28	45.2	46708	F28W/T5/865/ECO	40	30,000	36000	2700	2480	6500	85
		35	57.1	46724	F35W/T5/830/ECO	40	30,000	36000	3650	3350	3000	85
		35	57.1	46727	F35W/T5/835/ECO	40	30,000	36000	3650	3350	3500	85
		35	57.1	46735	F35W/T5/841/ECO	40	30,000	36000	3650	3350	4100	85
T5 High Output												
T5	Miniature Bi-Pin (G5)	24	21.6	46699	F24W/T5/830/ECO	40	30,000	36000	2000	1840	3000	85
		24	21.6	46700	F24W/T5/835/ECO	40	30,000	36000	2000	1840	3500	85
		24	21.6	46701	F24W/T5/841/ECO	40	30,000	36000	2000	1840	4100	85
		39	33.4	46744	F39W/T5/830/ECO	40	30,000	36000	3500	3220	3000	85
		39	33.4	46745	F39W/T5/835/ECO	40	30,000	36000	3500	3220	3500	85
		39	33.4	46746	F39W/T5/841/ECO	40	30,000	36000	3500	3220	4100	85
		54	45.2	46759	F54W/T5/830/ECO	40	30,000	36000	5000	4600	3000	85
		54	45.2	46760	F54W/T5/835/ECO	40	30,000	36000	5000	4600	3500	85
		54	45.2	46761	F54W/T5/841/ECO	40	30,000	36000	5000	4600	4100	85
		54	45.2	46762	F54W/T5/850/ECO	40	30,000	36000	4800	4410	5000	85
		54	45.2	46763	F54W/T5/865/ECO	40	30,000	36000	4750	4370	6500	85
T5 High Output Extra-Life												
T5	Miniature Bi-Pin (G5)	54	45	68837	F54T5/XL/835/ECO	40	50,000	60000	5000	4600	3500	84
		54	45	68838	F54T5/XL/841/ECO	40	50,000	60000	5000	4600	4100	84
		54	45	68839	F54T5/XL/850/ECO	40	50,000	60000	4800	4410	5000	84
T5 High Efficiency Watt-Miser®												
T5	Miniature Bi-Pin (G5)	13	21.6	71633	F14T5/835/WM/ECO	40	25,000	30000	1350	1240	3500	85
		13	21.6	71634	F14T5/841/WM/ECO	40	25,000	30000	1350	1240	4100	85
		20	33.4	71638	F21T5/835/WM/ECO	40	25,000	30000	2100	1930	3500	85
		26	45.2	71643	F28T5/835/WM/ECO	40	25,000	30000	2900	2660	3500	85
		26	45.2	71644	F28T5/841/WM/ECO	40	25,000	30000	2900	2660	4100	85
T5 High Output Watt-Miser®												
T5	Miniature Bi-Pin (G5)	51	45.2	71629	F54T5/841/WM/ECO	40	30,000	36000	5000	4600	4100	85
		51	45.2	71630	F54T5/850/WM/ECO	40	30,000	36000	4790	4410	5000	85
T5 High Output 47W Watt-Miser®												
T5	Miniature Bi-Pin (G5)	47	45.2	62022	F54T5/47W/841/ECO	40	30,000	36000	4800	4410	4100	84
		47	45.2	62023	F54T5/47W/850/ECO	40	30,000	36000	4600	4230	5000	84

T5 PREHEAT **LAMPS**

Bulb Shape	Base	Watts	Nominal Length (in.)	Order Code	Description	Case Qty	Rated Life (3hr/ Start)	Rated Life (12hr/ Start)	Initial Lumens	Mean Lumens	Color Temp K	CRI
12" and 21" Short T5												
T5	Miniature Bi-Pin (G5)	8	12.0	10059	F8T5/CW	24	5,000		400	320	4100	60
T5	Miniature Bi-Pin (G5)	13	21.0	10086	F13T5/CW	24	5,000		850	705	4100	60

T8 STARCOAT® **LAMPS**

Bulb Shape	Base	Watts	Nominal Length (in.)	Order Code	Description	Case Qty	Rated Life (3hr/ Start)	Rated Life (12hr/ Start)	Initial Lumens	Mean Lumens	Color Temp K	CRI	Footnote*
2′ T8 Ecolux®													
T8	Medium Bi-Pin (G13)	17	24.0	45741	F17T8/SP30/ECO	24	30,000	36000	1325	1260	3000	78	⋆
		17	24.0	45743	F17T8/SP35/ECO	24	30,000	36000	1325	1260	3500	78	⋆
		17	24.0	45748	F17T8/SP41/ECO	24	30,000	36000	1325	1260	4100	78	⋆
3′ T8 Ecolux®													
T8	Medium Bi-Pin (G13)	25	36.0	45750	F25T8/SP30/ECO	24	30,000	36000	2080	1970	3000	78	⋆
		25	36.0	45754	F25T8/SP35/ECO	24	30,000	36000	2080	1970	3500	78	⋆
		25	36.0	45756	F25T8/SP41/ECO	24	30,000	36000	2080	1970	4100	78	⋆
4′ T8 Ecolux®													
T8	Medium Bi-Pin (G13)	32	48.0	68850	F32T8/SPX30/ECO2	36	30,000	36000	2925	2770	3000	85	⋆
		32	48.0	68851	F32T8/SPX35/ECO2	36	30,000	36000	2925	2770	3500	85	⋆
		32	48.0	68852	F32T8/SPX41/ECO2	36	30,000	36000	2925	2770	4100	85	⋆
		32	48.0	68853	F32T8/SPX50/ECO2	36	30,000	36000	2900	2755	5000	82	⋆
		32	48.0	66342	F32T8/SPX65/ECO2	36	30,000	36000	2900	2755	6500	78	⋆
		33	48.1	63548	F32T8/841/PRO/EC	36	20,000	24000	3000	2850	4100	85	⋆
4′ T8 Ecolux® High Color Rendering													
T8	Medium Bi-Pin (G13)	32	48	66343	F32T8/C50/ECO	36	30,000	36000	1700	1600	5000	90	⋆
		32	48	66344	F32T8/C75/ECO	36	30,000	36000	1700	1600	7500	93	⋆

ULTRA ENERGY SAVING **T8 LAMPS**

Bulb Shape	Base	Watts	Nominal Length (in.)	Order Code	Description	Case Qty	Rated Life (3hr/ Start)	Rated Life (12hr/ Start)	Initial Lumens	Mean Lumens	Color Temp K	CRI	Footnote*
4′ T8 Ecolux® 25 Watt Lamp													
T8	Medium Bi-Pin (G13)	25	48.0	72129	F32T8/25W/SPX35/ECO	36	50,000	55,000	2,500	2,350	3500	85	⋆
		25	48.0	72130	F32T8/25W/SPX41/ECO	36	50,000	55,000	2,500	2,350	4100	85	⋆
		25	48.0	72131	F32T8/25W/SPX50/ECO	36	50,000	55000	2500	2350	5000	80	⋆
4′ T8 Ecolux® 25 Watt Super Long Life													
T8	Medium Bi-Pin (G13)	25	48.0	93905	F32T825W/SXL/SPX35/ECO	36	80,000	84,000	2,400	2,260	3500	82	⋆
		25	48.0	93906	F32T825W/SXL/SPX41/ECO	36	80,000	84,000	2,400	2,260	4100	82	⋆
4′ T8 Ecolux® UltraMax® 28 Watt Lamp													
T8	Medium Bi-Pin (G13)	28	48.0	66471	F28T8/XL/SPP35/ECO	36	40,000	45000	2600	2440	3500	80	⋆
		28	48.0	66472	F28T8/XL/SPP41/ECO	36	40,000	45000	2600	2440	4100	80	⋆
		28	48.0	72863	F28T8/XL/SPX30/ECO	36	45,000	50000	2675	2515	3000	85	⋆
		28	48.0	72864	F28T8/XL/SPX35/ECO	36	45,000	50,000	2,675	2,515	3500	85	⋆
		28	48.0	72866	F28T8/XL/SPX41/ECO	36	45,000	50,000	2,675	2,515	4100	82	⋆
		28	48.0	72867	F28T8/XL/SPX50/ECO	36	45,000	50,000	2,675	2,515	5000	80	⋆
		28	48.0	66346	F28T8/XL/SPX65/ECO	36	45,000	50000	2600	2440	6500	80	⋆
4′ T8 Ecolux® UltraMax® 28 Watt Super Long Life													
T8	Medium Bi-Pin (G13)	28	48.0	93902	F28T8/SXL/SPX35/ECO	36	80,000	84,000	2,600	2,440	3500	82	⋆
		28	48.0	93903	F28T8/SXL/SPX41/ECO	36	80,000	84,000	2,600	2,440	4100	82	⋆
4′ T8 Ecolux® High Lumen													
T8	Medium Bi-Pin (G13)	32	48.0	10326	F32T8/XL/SPX35/HL/ECO	36	40,000	45000	3100	2915	3500	85	⋆
		32	48.0	10322	F32T8/XL/SPX41/HL/ECO	36	40,000	45000	3100	2915	4100	82	⋆
		32	48.0	42556	F32T8/XL/SPX50/HL/ECO	36	40,000	45000	3000	2820	5000	80	⋆

8' **T8 LAMPS**

Bulb Shape	Base	Watts	Nominal Length (in.)	Order Code	Description	Case Qty	Rated Life (3hr/ Start)	Rated Life (12hr/ Start)	Initial Lumens	Mean Lumens	Color Temp K	CRI
8′ T8 XL Extra-Life												
T8	Single Pin (Fa8)	59	96.0	68869	F96T8/XL/SPX35/2	24	24,000	30000	5950	5650	3500	85
		59	96.0	68870	F96T8/XL/SPX41/2	24	24,000	30000	5950	5650	4100	85
		59	96.0	68871	F96T8/XL/SPX50/2	24	24,000	30000	5950	5650	5000	82
8′ T8 XL Extra-Life Watt-Miser® Plus Energy Saving Lamps												
T8	Single Pin (Fa8)	54	96.0	15123	F96T8/XLSPX41WMP	24	24,000	30000	5400	5000	4100	84
		51	96.0	15121	F96T8/XLSPX35WMP	24	24,000	30000	5300	4900	3500	84

⋆ **GE Lighting**, a Savant company, lamp distributed by **GE Current**, a Daintree company

Information provided is subject to change without notice. Please verify all details with Current. All values are design or typical values when measured under laboratory conditions, and Current makes no warranty or guarantee, expressed or implied, that such performance will be obtained under end-use conditions.

Get more information at
www.gecurrent.com

Linear Fluorescent Lamps

8' T8 HIGH OUTPUT

Bulb Shape	Base	Watts	Nominal Length (in.)	Order Code	Description	Case Qty	Rated Life (3hr/ Start)	Rated Life (12hr/ Start)	Initial Lumens	Mean Lumens	Color Temp K	CRI
8' T8 High Output – Recessed Double Contact												
T8	Recessed Double Contact (R17d)	86	96.0	12533	F96T8/SPX35/HO	24	18,000		8200	7800	3500	85
		86	96.0	12534	F96T8/SPX41/HO	24	18,000		8200	7800	4100	85
		86	96.0	12535	F96T8/SPX50/HO	24	18,000		8200	7800	5000	82

T8 MOD-U-LINE®

Bulb Shape	Base	Watts	Nominal Length (in.)	Order Code	Description	Case Qty	Rated Life (3hr/ Start)	Rated Life (12hr/ Start)	Initial Lumens	Mean Lumens	Color Temp K	CRI
T8 1-5/8" Spacing Ecolux®												
T8	Medium Bi-Pin (G13)	31	22.5	72117	F31T8/SPX30/U/ECO	15	24,000		2775	2440	3000	82
		31	22.5	72118	F31T8/SPX35/U/ECO	15	24,000		2775	2440	3500	82
		31	22.5	72119	F31T8/SPX41/U/ECO	15	24,000		2775	2440	4100	82
T8 6" Spacing												
T8	Medium Bi-Pin (G13)	32	22.5	68920	F32T8/SPX30/U6/2	12	20,000		2800	2630	3000	82
		32	22.5	68921	F32T8/SPX35/U6/2	12	20,000		2800	2630	3500	82
		32	22.5	68922	F32T8/SPX41/U6/2	12	20,000		2800	2630	4100	82
		32	22.5	68923	F32T8/SPX50/U6/2	12	20,000		2660	2510	5000	82
T8 6" Spacing Ecolux®												
T8	Medium Bi-Pin (G13)	32	22.5	28145	F32T8/SP30/U6/ECO	12	20,000		2700	2375	3000	78
		32	22.5	28149	F32T8/SP35/U6/ECO	12	20,000		2700	2375	3500	78
		32	22.5	28152	F32T8/SP41/U6/ECO	12	20,000		2700	2375	4100	78
		32	22.5	72112	F32T8/SPX35/U6/ECO	12	20,000		2800	2465	3500	82
		32	22.5	72113	F32T8/SPX41/U6/ECO	12	20,000		2800	2465	4100	82

OTHER T8 LENGTHS

Bulb Shape	Base	Watts	Nominal Length (in.)	Order Code	Description	Case Qty	Rated Life (3hr/ Start)	Rated Life (12hr/ Start)	Initial Lumens	Mean Lumens	Color Temp K	CRI	Footnote*
5' T8 w/Starcoat®													
T8	Medium Bi-Pin (G13)	40	60.0	22662	F40T8/SPX41	24	20,000		3725	3350	4100	84	*
18" T8													
T8	Medium Bi-Pin (G13)	15	18.0	10142	F15T8/CW	24	7,500		825	725	4100	60	
		15	18.0	10134	F15T8/D	24	7,500		700	615	6500	75	
36" T8													
T8	Medium Bi-Pin (G13)	30	36.0	10316	F30T8/CW 6PK	24	7,500		2150	1980	4100	60	
		30	36.0	10310	F30T8/D	24	7,500		1850	1625	6500	75	

* **GE Lighting**, a Savant company, lamp distributed by **GE Current**, a Daintree company

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T12 **LAMPS**

Bulb Shape	Base	Watts	Nominal Length (in.)	Order Code	Description	Case Qty	Rated Life (3hr/ Start)	Rated Life (12hr/ Start)	Initial Lumens	Mean Lumens	Color Temp K	CRI	Footnote*
3′ T12 Ecolux® – Rapid Start (30W)													
T12	Medium Bi-Pin (G13)	30	36.0	80084	F30T12/CW/RS/ECO	24	18,000		2200	1910	4100	60	✶
4′ T12 – Rapid Start													
(34W Watt-Miser® Ecolux® – TCLP Compliant)													
T12	Medium Bi-Pin (G13)	34	48.0	66474	F34CX41/WM/ECO	30	20,000		2500	2200	4100	87	✶
		34	48.0	66649	F34CW/C/WM/ECO	30	15,000		1800	1500	4100	87	✶
(40W Ecolux® – TCLP Compliant)													
T12	Medium Bi-Pin (G13)	40	48.0	80096	F40C50/ECO	30	20,000		2250	1870	5000	90	✶
		40	48.0	80097	F40DX/ECO	30	20,000		2050	1740	6500	90	✶
T12 Instant Start													
T12	Single Pin (Fa8)	40	48.0	10748	F48T12/CW	24	9,000		2875	2650	4100	60	
8′ T12 Instant Start													
(8′ Instant Start Standard)													
T12	Single Pin (Fa8)	75	96.0	14652	F96T12/DX	15	12,000		4300	3870	6500	90	
(8″ Instant Start Watt-Miser® XL Extra-life)													
T12	Single Pin (Fa8)	60	96.0	68052	F96T12/CW/C/WM	15	12,000		3600	2900	4100	90	
		60	96.0	66858	F96T12XL/HL41/WM	15	12,000		5900	5480	4100	80	
T12 Other Lengths													
(5′ T12 Instant Start)													
T12	Single Pin (Fa8)	50	60.0	23073	F60T12/CW 15PK	15	12,000		3600	3310	4100	60	
(64″ T12 Instant Start)													
T12	Single Pin (Fa8)	60	96.0	68052	F96T12/CW/C/WM	15	12,000		3600	2900	4100	90	
T12 High Output (800mA) Rapid Start Recessed Double Contact													
(3′ High Output)													
T12	Recessed Double Contact (R17d)	45	36.0	10374	F36T12/CW/HO	24	9,000		2800	2440	4100	60	
		45	36.0	10380	F36T12/D/HO	24	9,000		2350	2040	6500	75	
(4′ High Output)													
T12	Recessed Double Contact (R17d)	60	48.0	10773	F48T12/CW/HO	24	12,000		3825	3320	4100	60	
		60	48.0	10778	F48T12/D/HO	24	12,000		3400	2960	6500	75	
(5′ High Output)													
T12	Recessed Double Contact (R17d)	75	60.0	23075	F60T12/CW/HO 15PK	15	12,000		5150	4480	4100	60	
		75	60.0	23077	F60T12/D/HO 15PK	15	12,000		4400	3830	6500	75	
(64″ High Output)													
T12	Recessed Double Contact (R17d)	80	64.0	23083	F64T12/CW/HO 15PK	15	12,000		5600	4870	4100	60	
		80	64.0	23087	F64T12/D/HO 15PK	15	12,000		4750	4130	6500	75	
		85	72.0	13697	F72T12/CW/HO 15PK	15	12,000		6350	5520	4100	60	
		85	72.0	13699	F72T12/D/HO 15PK	15	12,000		5350	4650	6500	75	
(7′ High Output)													
T12	Recessed Double Contact (R17d)	100	84.0	13766	F84T12/CW/HO 15PK	15	12,000		7700	6700	4100	60	
		100	84.0	13767	F84T12/D/HO 15PK	15	12,000		6500	5660	6500	75	
(8′ High Output Watt-Miser® Energy Saving Lamps)													
T12	Recessed Double Contact (R17d)	95	96.0	66862	F96T12/HL41/HO/WM	15	12,000		8850	7920	4100	77	
T12 Preheat													
(18″)													
T12	Medium Bi-Pin (G13)	15	18.0	10183	F15T12/CW 6PK	24	9,000		760	685	4100	60	
(24″)													
T12	Medium Bi-Pin (G13)	20	24.0	80045	F20T12/CW/ECO	24	9,000		1200	1150	4100	60	✶
		20	24.0	80047	F20T12/D/ECO	24	9,000		1025	945	6500	75	✶

T9 CIRCLINE® **LAMPS**

Bulb Shape	Base	Watts	Nominal Length (in.)	Order Code	Description	Case Qty	Rated Life (3hr/ Start)	Rated Life (12hr/ Start)	Initial Lumens	Mean Lumens	Color Temp K	CRI
T9 Circline® Lamps												
T9	4-Pin (G10q)	22	8.25	33774	FC8T9/CW	12	12,000		1100	825	4100	60
		32	12.0	33890	FC12T9/CW	12	12,000		1950	1460	4100	60
		40	16.0	33893	FC16T9/CW	12	12,000		2700	2030	4100	60

✶ **GE Lighting**, a Savant company, lamp distributed by **GE Current**, a Daintree company

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Linear Fluorescent Lamps

SPECIAL APPLICATION **LAMPS**

Bulb Shape	Base	Watts	Nominal Length (in.)	Order Code	Description	Case Qty	Rated Life (3hr/ Start)	Rated Life (12hr/ Start)	Initial Lumens	Mean Lumens	Color Temp K	CRI	Footnote*	Additional Information
covRguard® Shatter Resistant														
(T5 High Efficiency)														
T5	Miniature Bi-Pin (G5)	28	45.2	81547	F28W/T5/835/ECO/CVG	40	30,000	36000	2813	2672	3500	85	⋆	Blocks UV
		28	45.2	81548	F28W/T5/841/ECO/CVG	40	30,000	36000	2813	2672	4100	85	⋆	Blocks UV
(T5 High Output)														
T5	Miniature Bi-Pin (G5)	54	45.2	48436	F54T5/835/HO/ECO/CVG	40	30,000	36000	4850	4560	3500	85		
		54	45.2	48458	F54T5/841/HO/ECO/CVG	40	30,000	36000	4850	4560	4100	85		
		54	45.2	80311	F54T5/850/HO/ECO/CVG	40	30,000	36000	4650	4370	5000	85		
T8 Ecolux® w/ Starcoat®														
(2' T8 Ecolux® w/ Starcoat®)														
T8	Medium Bi-Pin (G13)	17	24.0	15974	F17T8SP35ECOCVG	24	30,000	36000	1280	1220	3500	78	⋆	Blocks UV
		17	24.0	15977	F17T8SP41ECOCVG	24	30,000	36000	1280	1220	4100	78	⋆	Blocks UV
(3' Ecolux® w/Starcoat®)														
T8	Medium Bi-Pin (G13)	25	36.0	15981	F25T8SP35ECOCVG	24	30,000	36000	2020	1920	3500	78	⋆	Blocks UV
		25	36.0	15984	F25T8SP41ECOCVG	24	30,000	36000	2020	1920	4100	78	⋆	Blocks UV
(4' T8 (48") Ecolux® w/Starcoat®)														
T8	Medium Bi-Pin (G13)	32	48.0	94843	F32T8SPX65ECO/CV	36	30,000	36000	2800	2670	6500	78	⋆	Blocks UV
		32	48.0	41125	F32T8SPX30ECOCVG	36	30,000	36000	2860	2715	3000	85	⋆	Blocks UV
		32	48.0	41126	F32T8SPX35ECOCVG	36	30,000	36000	2860	2715	3500	85	⋆	Blocks UV
		32	48.0	41127	F32T8SPX41ECOCVG	36	30,000	36000	2860	2715	4100	85	⋆	Blocks UV
		32	48.0	15971	F32T8SPX50ECOCVG	36	30,000	36000	2715	2580	5000	82	⋆	Blocks UV
Ultra Energy Saving T8 Lamps w/ covRguard®														
(4' T8 Ecolux® UltraMax® 28 Watt Lamp)														
T8	Medium Bi-Pin (G13)	28	48.0	73293	F28T8/XLSPX35ECO/CVG	36	40,000	46000	2595	2440	3500	85	⋆	Blocks UV, CEE Approved
		28	48.0	73294	F28T8/XLSPX41ECO/CVG	36	40,000	46000	2595	2440	4100	82	⋆	Blocks UV, CEE Approved
		28	48.0	73295	F28T8/XLSPX50ECO/CVG	36	40,000	46000	2595	2440	5000	80	⋆	Blocks UV
(4' T8 Ecolux® High Lumen XL Extra-Life w/Starcoat®)														
T8	Medium Bi-Pin (G13)	32	48.0	80497	F32T8XLSPX50HCVG	36	40,000	45000	2910	2735	5000	80	⋆	Blocks UV
T8 Instant Start w/Starcoat®														
(8' T8 (96") Instant Start w/Starcoat®)														
T8	Single Pin (Fa8)	59	96.0	40106	F96T8XL/SPX41/CVG	24	24,000	30000	5770	5480	4100	85	⋆	Blocks UV
T12 Rapid Start Lamps														
(4' T12 Ecolux® Rapid Start Watt-Miser® Lamps (48"))														
T12	Medium Bi-Pin (G13)	34	48.0	26044	F34CX41WMECOCCVG	30	20,000		2400	2130	4100	87	⋆	Blocks UV
		40	48.0	80994	F40DX/ECO/CVG	30	20,000		1988	1687	6500	90	⋆	Daylight Deluxe

COLD TEMPERATURE **LAMPS**

Bulb Shape	Base	Watts	Nominal Length (in.)	Order Code	Description	Case Qty	Rated Life (3hr/ Start)	Rated Life (12hr/ Start)	Initial Lumens	Mean Lumens	Color Temp K	CRI	Footnote	Warning and Caution Notice
High Output (800mA) Recessed Double Contact														
T12	Recessed Double Contact (R17d)	110	96.0	11918	F96T12/CW/HO/CT	15	12,000		8900	7740	4100	60	11,13,17	101
		110	96.0	11919	F96T12/D/HO/CT	15	12,000		7600	6610	6500	75	11,13,17	101

⋆ **GE Lighting**, a Savant company, lamp distributed by **GE Current**, a Daintree company

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APPLIANCE **LAMPS**

Bulb Shape	Base	Watts	Nominal Length (in.)	Order Code	Description	Case Qty	Rated Life (3hr/ Start)	Rated Life (12hr/ Start)	Initial Lumens	Mean Lumens	Color Temp K	CRI
T8												
T8	Medium Bi-Pin (G13)	18	24.0	17705	F24T8/CW/4 6PK	24	7,500		1150	1040	4100	60
		19	28.0	17704	F28T8/CW/4 6PK	24	7,500		1350	1145	4100	60
		19	30.0	10349	F30T8/CW/4	24	7,500		1375	1170	4100	60

GOLD **LAMPS**

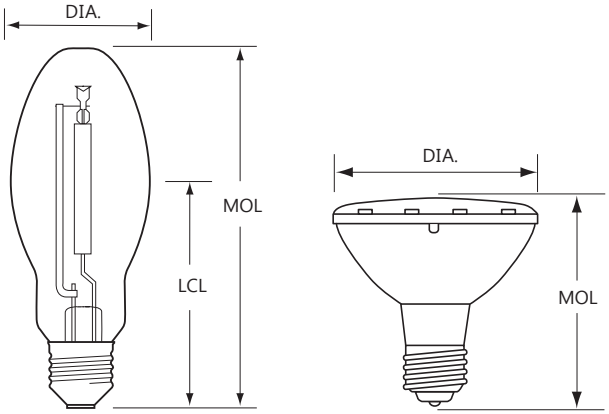
Bulb Shape	Base	Watts	Nominal Length (in.)	Order Code	Description	Case Qty	Rated Life (3hr/ Start)	Rated Life (12hr/ Start)	Initial Lumens	Mean Lumens	Color Temp K	CRI	Footnote*	Additional Information
T5														
T5	Miniature Bi-Pin (G5)	28	45.2	25768	F28T5/GO/CVG	40	20,000		1986	1946			⋆	Gold Sleeved, Blocks UV and Deep Blue Emissions
T8														
T8	Medium Bi-Pin (G13)	32	48.0	25784	F32T8/GO/ECOCVG	36	15,000		2280	2235			⋆	Gold Sleeved, Blocks UV and Deep Blue Emissions

⋆ **GE Lighting**, a Savant company, lamp distributed by **GE Current**, a Daintree company

High Intensity Discharge Lamps

High Intensity Discharge lighting provides energy efficiency in a compact size for many commercial and industrial applications.

REFERENCE GUIDE | BULB **IDENTIFICATION**



DIA: Diameter of bulb at widest point.

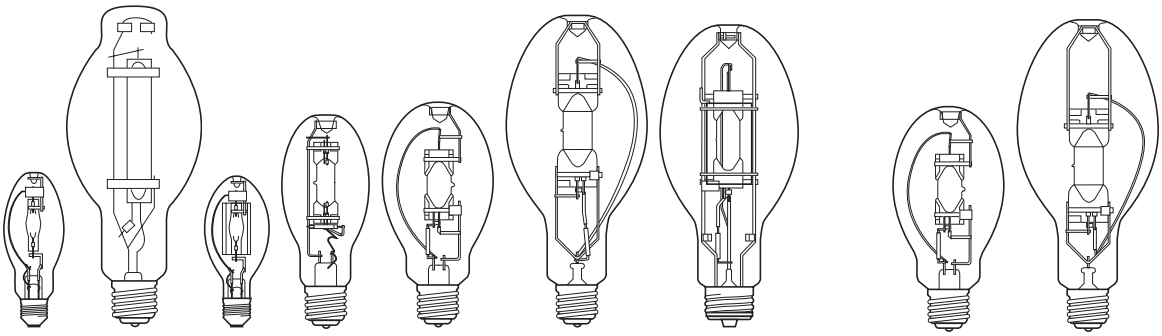
MOL: Maximum Overall Length including base or pins.

LCL: Distance between the center of the arc tube and the Light Center Length reference plane.

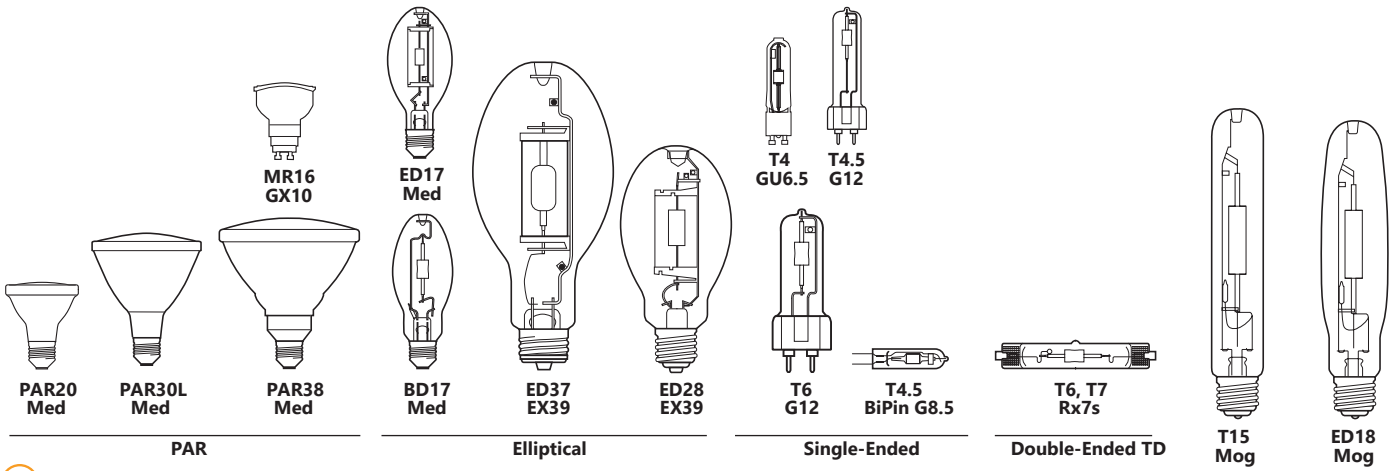
Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.

To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

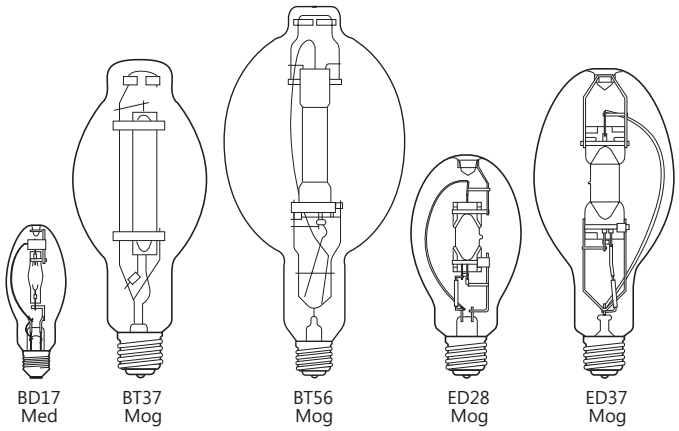
FILAMENT **IDENTIFICATION**

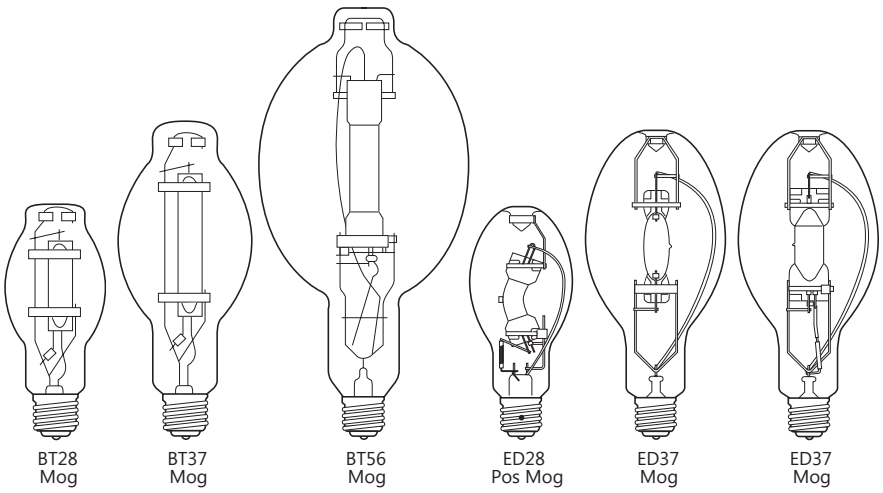


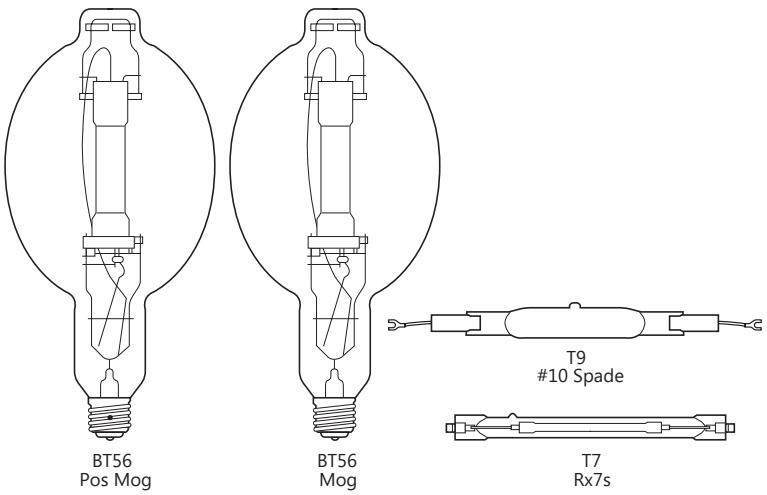
BASE **IDENTIFICATION**

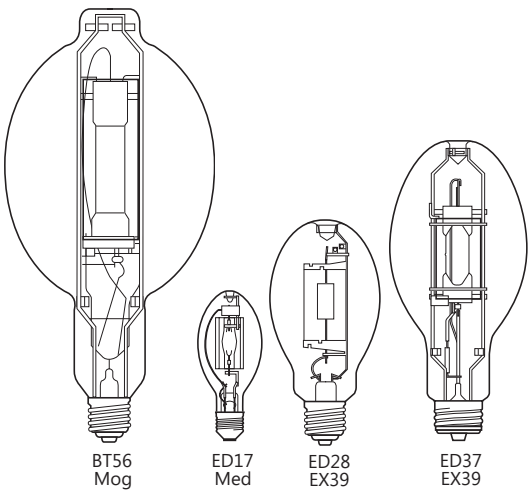


Lamp **Locator**



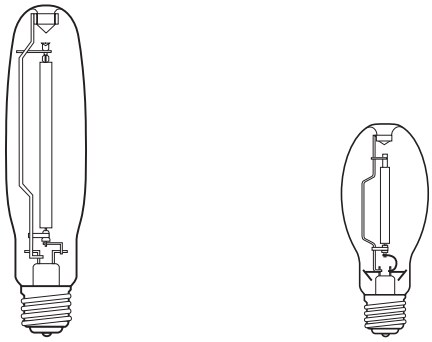


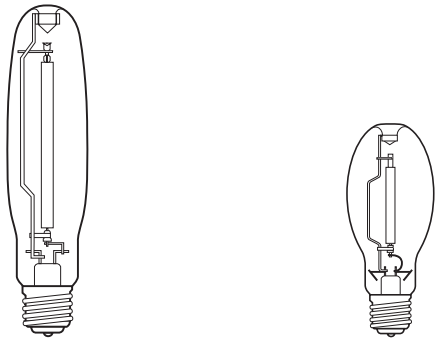


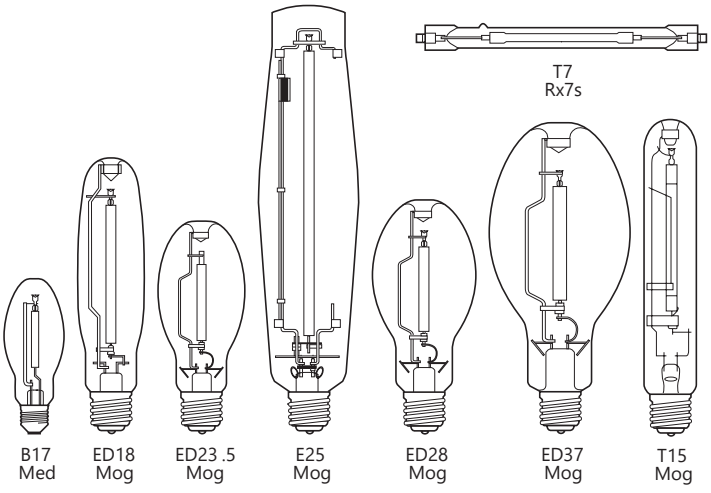


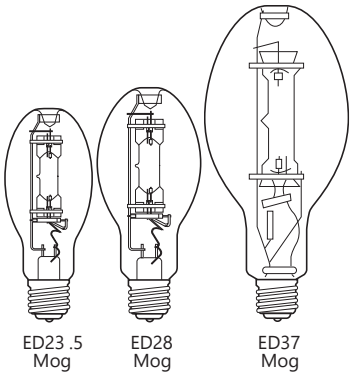
High Intensity Discharge Lamps

Lamp **Locator** (Cont.)

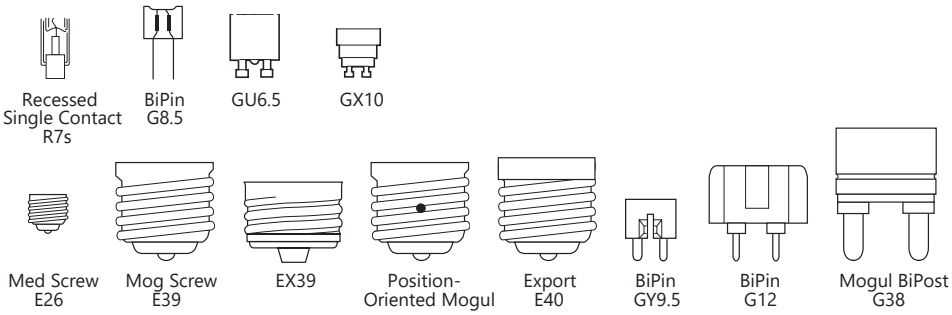








Base **Identification**



Headings in this **Catalog Section**

Bulb Shape:
Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch).

Energy Used – Nominal Watts:
Energy Used (as defined by FTC Lamp Label Rules). To estimate energy consumption (kWh), multiply watts x hours of use and divide by 1000.

LET (Lamp Enclosure Type):
Describes fixture requirements for this lamp.

OP (Operating Position)

LCL (in):
Distance between the center of the filament and the Light Center Length reference plane, in inches.

Order Code:
It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.

MOL (in):
Maximum Overall Length in inches.

Base:
The type of base.

Description:
The lamp's identification code.

CBCP (Center Beam Candlepower):
For reflector-type lamps. Center Beam Candlepower is the intensity (candelas) at the center or maximum intensity of the beam. Used only for ConstantColor® CMH® Metal Halide Lamps.

Case Qty:
Number of product units packed in a case.

ANSI Ballast Type:
Ballast type used to operate lamp.

Rated Life (hours):
Lamp burning hours to median life expectancy.

Initial Lumens:
Initial light output.

Mean Lumens:
Lamp light output (lumens) at 40% of rated lamp life for Metal Halide lamps and 50% of rated life for Mercury and HPS lamps.

Color Temperature Kelvins (K):
A measure of the visual "warmth" or "coolness" of the light from the lamp. The higher the value the whiter or "cooler" the light appears.

Color Rendering Index (CRI):
An indication of the ability of the lamp to render object colors in a normal, natural way. The higher the number (0-100), the better the color appearance.

Constant Color CMH® Metal Halide Lamps

Bulb Shape	Base	LET	OP	Watts	MOL (in)	LCL (in)	Order Code	Description	ANSI Ballast Type	Case Qty	CBCP	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI
CMH® MR16																
MR16	GX1	O	U	20	2.28		85101	CMH20MR16/830/SP	M156	12	9000	12000	1000		3000	81

CMH20MR16/830/SP

- CMH20 — Identifies as CMH® lamp.
- MR16 — Identifies the bulb shape.
- 830 — Color temp. and CRI.
- SP — Additional information.

Lamp Contains Mercury.
Manage in Accord with Disposal Laws.
See **www.lamprecycle.org** or **1-800-327-0097**

High Intensity Discharge Lamps

MULTI-VAPOR® METAL HALIDE LAMPS

Bulb Shape	Base	LET	OP	Watts	MOL (In)	LCL (In)	Order Code	Description	ANSI Ballast Type	Case Qty	CBCP	Rated Life (hrs*)	Lumens Initial	Mean Lumens	Color Temp K	CRI	Warning Notice
50 Watts																	
BD17	E26	E	U	50	5.43	3.43	10361	MXR50/U/MED	M110	6		10000	3200	2100	3700	60	1, 3
70 Watts																	
BD17	E26	E	U	70	5.43	3.43	22158	MXR70/U/MED	M98	6		12000	5500	3500	3500	55	1, 3
		E	U	70	5.43	3.43	12590	MVR70/U/MED	M98	6		12000	5500	3000	4000	65	1, 3
100 Watts																	
BD17	E26	E	U	100	5.43	3.43	18680	MXR100/U/MED	M90	6		15000	9000	6200	3200	65	1, 3
		E	U	100	5.43	3.43	12652	MVR100/U/MED	M90	6		15000	9500	5800	4000	70	1, 3
150 Watts																	
BD17	E26	E	U	150	5.43	3.43	22935	MXR150/U/MED	M102	6		15000	13300	10000	3400	60	1, 3
		E	U	150	5.43	3.43	12598	MVR150/U/MED	M102	6		15000	14000	10500	4300	65	1, 3
175 Watts																	
ED23.5	E39	E	VBU	175	7.50	5.00	12622	MVR175/VBU/PA	M137/M152	6		15000	17500	13000	4000	70	1, 2
250 Watts																	
ED28	E39	E	U	250	8.25	5.00	78665	MVR250/U/PA	M138/M153	12		12000H/ 15000V	18600H/ 22400V	12000H/ 14000V	3900	60	1, 2
		E	VBU	250	8.25	5.00	26317	MVR250/VBU/PA	M138/M153	12		15000	23000	17000	4200	55	1, 2
320 Watts																	
ED28	E39	E	VBU	320	8.25	5.00	27501	MVR320/VBU/HO/PA	M132/M154	12		20000	31000	18000	4000	60	1, 2
400 Watts																	
ED37	E39	E	U	400	11.50	7.00	78666	MVR400/U/PA	M135/M155	6		15000H/ 20000V	31200H/ 39400V	18000H/ 22000V	4000	60	1, 2
ED28	E39	E	VBU	400	8.25	5.00	46271	MVR400/VBUED28PA	M135/M155	12		20000	44000	28500	4000	65	1, 3
		E	HOR	400	8.25	5.00	72885	MVR400/HOR/ED28/PA	M135/M155	12		20000	38000	21400	4100	65	1, 3
150 Watts																	
ED28	E39	E	U	150	8.25	5.00	13481	MVR150/U/WM	M57/M107	12		7500H/ 10000V	11500H/ 13500V	7200H/ 8500V	4000	65	1, 2
175 Watts																	
BD17	E26	E	U	175	5.75	3.43	18902	MVR175/U/MED	M57	6		6000H/ 10000V	11700H/ 14000V	7400H/ 8800V	4000	60	1, 2
ED28	E39	E	U	175	8.25	5.00	47760	MVR175/U	M57	12		6000H/ 10000V	11700H/ 13600V	7900H/ 8800V	4000	55	1, 2
		E	U	175	8.25	5.00	47761	MVR175/C/U	M57	12		6000H/ 10000V	11900H/ 12900V	7900H/ 8400V	3900	55	1, 2
250 Watts																	
ED28	E39	E	U	250	8.25	5.00	42729	MVR250/U	M58	12		6000H/ 10000V	19100H/ 20800V	12400H/ 13500V	4200	60	1, 2
		E	U	250	8.25	5.00	42731	MVR250/C/U	M58	12		6000H/ 10000V	18200H/ 19800V	11600H/ 13000V	3900	60	1, 2
400 Watts																	
ED37	E39	S	U	400	11.50	7.00	43828	MVR400/U	M59	6		15000H/ 20000V	33100H/ 38000V	22100H/ 23500V	4000	60	1, 2
		S	U	400	11.50	7.00	43829	MVR400/C/U	M59	6		15000H/ 20000V	32200H/ 36000V	19300H/ 23000V	3700	60	1, 2
ED28	E39	E	U	400	8.25	5.00	18904	MVR400/U/ED28	M59	12		15000H/ 20000V	33100H/ 38000V	22100H/ 23500V	4000	60	1, 2
1000 Watts																	
BT56	E39	S	U	1000	15.37	9.50	41826	MVR1000/U	M47	6		11000H/ 15000V	100280H/ 108000V	79000H/ 86000V	4000	65	1, 2
BT37	E39	E	U	1000	11.50	7.00	18205	MVR1000/U/BT37	M47	6		9000H/ 12000V	105000H/ 115000V	82000H/ 90000V	3700	65	1, 2
1500 Watts																	
BT56	E39	E	U	1500	15.37	9.50	47326	MVR1500/U/SPORTS	M48	6		3000	162000H/ 170000V	137000H/ 153000V	4000	65	1, 2
50 Watts																	
ED17	E26	O	U	50	5.43	3.43	45670	MXR50/U/MED/O	M110	6		10000	3200	1700	3500	70	3, 4
70 Watts																	
ED17	E26	O	U	70	5.43	3.43	12377	MXR70/U/MED/O	M98	6		15000	5500	3500	3200	70	3, 4
100 Watts																	
ED17	E26	O	U	100	5.43	3.43	12381	MXR100/U/MED/O	M90	6		15000	9000	6200	3200	70	3, 4
		O	U	100	5.43	3.43	12579	MXR100/C/U/MED/O	M90	6		15000	8500	5900	3200	70	3, 4
150 Watts																	
ED17	E26	O	U	150	5.43	3.43	45683	MXR150/U/MED/O	M102	6		15000	12500	8600	3500	70	3, 4
320 Watts																	
ED37	EX39	O	VBU	320	11.50	7.00	46275	MPR320/VBU/XHOPA	M132/M154	6		20000	32000	22500	4000	65	3, 4
ED28	EX39	O	VBU	320	8.25	5.00	19609	MPR320/C/PA/ED28	M132/M154	12		20000	30600	22500	3700	70	3, 4
400 Watts																	
ED37	EX39	O	VBU	400	11.50	7.00	46273	MPR400/VBU/XHOPA	M135/M155	6		20000	42000	29500	4000	65	3, 4
1000 Watts																	
BT56	EX39	O	VBU	1000	15.37	9.50	41433	MPR1000/VBU/HO/O	M47	6		12000	110000	88500	3500	65	3, 4

Information provided is subject to change without notice. Please verify all details with Current. All values are design or typical values when measured under laboratory conditions, and Current makes no warranty or guarantee, expressed or implied, that such performance will be obtained under end-use conditions.

Get more information at www.gecurrent.com

CONSTANT COLOR CMH® **METAL HALIDE LAMPS**

Bulb Shape	Base	LET	OP	Watts	MOL (In)	LCL (In)	Order Code	Description	ANSI Ballast Type	Case Qty	CBCP	Rated Life (hrs*)	Lumens Initial	Mean Lumens	Color Temp K	CRI	Warning Notice
CMH® MR16/MR17																	
	GX10	O	U	20	2.28		85101	CMH20MR16/830/SP	C156/M156	12	9000	12000	1000		3000	81	5
		O	U	20	2.28		85110	CMH20MR16/830/FL	C156/M156	12	2900	12000	1000		3000	81	5
		O	U	39	2.28		71489	CMH39MR16/930/FL	C130/M130	12	5500	10000	2200		3000	90	5
CMH® PAR																	
PAR30L	E26	O	U	39	4.75		42067	CMH39PAR30L/FL25	C130/M130	6	11000	10000	2400		3000	81	5
CMH® Single-Ended G12																	
T4.5	G12	E	U	39	3.56	2.18	20153	CMH39TUVCU830G12	C130/M130	12		16500	3400	2300	3000	84	5
T6	G12	E	U	70	3.56	2.18	20016	CMH70TU/830/G12	C139/M139	12		15000	6200	4700	3000	83	5
CMH® GU6.5																	
T4	GU6.5	E	U	20	2.05	1.18	85086	CMH20T/U830GU6.5	C156/M156	12		12000	1615	1066	3000	81	5
		E	U	39	2.05	1.18	71484	CMH39T/U930GU6.5	C130/M130	12		10000	3400	2300	3000	88	5
CMH® Mini's																	
T4.5	G8.5	E	U	20	3.37	2.00	92696	CMH20TCU830/G8.5	C156/M156	12		12000	1650	1090	3000	81	5
		E	U	39	3.37	2.00	90352	CMH39TCU830/G8.5	C130/M130	12		16500	3400	2300	3000	84	5
		E	U	70	3.37	2.00	92585	CMH70TCU830G8.5	C139/M139	12		15000	6200	4400	3000	83	5

HIGH PRESSURE **SODIUM LAMPS**

Bulb Shape	Base	LET	OP	Watts	MOL (In)	LCL (In)	Order Code	Description	ANSI Ballast Type	Case Qty	CBCP	Rated Life (hrs*)	Lumens Initial	Mean Lumens	Color Temp K	CRI	Warning Notice
70-1000 Watts																	
B17	E26	O	U	70	5.43	3.43	11339	LU70/MED/ECO	S62	6		24000+	6400	5450	1900	22	6
ED23.5	E39	O	U	70	7.75	5.00	85368	LU70/H/ECO	S62	12		24000+	6400	5450	1900	22	6
B17	E26	O	U	100	5.50	3.43	13250	LU100/MED/ECO	S54	6		24000+	9500	8550	2000	22	6
ED23.5	E39	O	U	100	7.75	5.00	85369	LU100/H/ECO	S54	12		24000+	9500	8550	2000	22	6
B17	E26	O	U	150	5.75	3.50	13252	LU150/MED/ECO	S55	6		24000+	16000	14400	2000	22	6
ED23.5	E39	O	U	150	7.75	5.00	85371	LU150/55/H/ECO	S55	12		24000+	16000	14400	2000	22	6
ED18	E39	O	U	200	9.75	5.75	85372	LU200/H/ECO	S66	12		24000+	22000	19800	2100	22	6
ED18	E39	O	U	250	9.75	5.75	85377	LU250/H/ECO	S50	12		24000+	28000	25200	2100	22	6
ED18	E39	O	U	400	9.75	5.75	85379	LU400/H/ECO	S51	12		24000+	51000	45000	2100	22	6
E25	E39	O	U	1000	15.06	8.75	44058	LU1000/ECO	S52	6		24000+	130000	117000	2100	22	7

MERCURY **LAMPS**

Bulb Shape	Base	LET	OP	Watts	MOL (In)	LCL (In)	Order Code	Description	ANSI Ballast Type	Case Qty	CBCP	Rated Life (hrs*)	Lumens Initial	Mean Lumens	Color Temp K	CRI	Warning Notice
100-400 Watts																	
ED23.5	E39	O	U	100	7.50	5.00	22575	HR100DX38	H38	12		20000	4000	2800	3900	50	8
ED28	E39	O	U	175	8.25	5.00	24048	HR175A39	H39	12		20000	7850	6670	5700	15	8
		O	U	175	8.25	5.00	24062	HR175DX39	H39	12		20000	7800	6630	3900	50	8
ED28	E39	O	U	250	8.25	5.00	32127	HR250DX37	H37	12		20000	11200	7840	3900	50	8
ED37	E39	O	U	400	11.31	7.00	23974	HR400A33	H33	6		20000	21000	14700	5700	15	8
		O	U	400	11.31	7.00	23998	HR400DX33	H33	6		20000	22600	15800	3900	50	8

High Intensity Discharge Lamps

1 WARNING **NOTICE NO. 1:**

⚠ WARNING

Risk of electric shock
- Turn power off before inspection, installation, or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire
- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury
- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage
- Turn lamp off at least once for 15 minutes per week. **FAILURE TO COMPLY INCREASES THE RISK OF RUPTURE.**
- Do not use beyond rated life. Beyond rated life, light output diminishes while energy consumption and risk of lamp rupture increases.
- Do not use lamp if outer glass is scratched or broken
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Lamps with E-rated ANSI codes must be operated in enclosed fixtures -- See Instructions
- Do not store flammable materials near/below S-rated lamp in open fixture
- Use only properly rated ballast
- Do not exceed rated voltage
- Do not turn on lamp until fully installed
- Operate lamp only in specified position
- If used on a dimming system, see instructions.

⚠ CAUTION

Risk of burn
- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken
- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp
- **CAUTION**: Do not stare at light source. May be harmful to the eyes. Not applicable to diffuse coated bulbs.

INSTRUCTIONS

LAMP OPERATING CHARACTERISTICS
This is a discharge lamp and requires some time to restart and come to full brightness after a power interruption.

RELAMP FIXTURES AT OR BEFORE THE END OF RATED LIFE.
Beyond rated life, light output diminishes while energy consumption and risk of lamp rupture increases.

SPECIFIED OPERATING POSITIONS

VBU - Base up ± 15˚ **VBD - Base down ± 15˚**
HOR - Horizontal ± 15˚ **HOR/PA - Horizontal ± 75˚**
U - Universal

All lamps are rated for enclosed fixtures, except lamps with S-rated ANSI codes operated in vertical position only (Base Up or Base Down), ± 15 degrees, can be used in an open fixture.

Match ANSI code of lamp to code on ballast or luminaire.

Use in luminaire which comply with UL1598 or IEC 60598. When used, fixture lens/diffuser material must be able to contain fragments of hot quartz or glass (up to 1100˚C).

Electrically insulate any metal to bulb support in luminaire to avoid decomposition of glass.

For total load, add auxiliary watts to lamp watts.

Not for use with lampholders that have stainless steel center contacts to avoid lamp or lampholder damage due to arcing. (360-1000W only)

FOR USE ON DIMMING SYSTEMS
Contact your local Current sales representative

Hg LAMP CONTAINS MERCURY

Manage in Accord with Disposal Laws.
See **www.lamprecycle.org** or **1-800-327-0097**

R **WARNING:** This lamp can cause serious skin burn and eye inflammation from shortwave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available. This lamp certified to comply with FDA radiation performance standards, 21 CFR Subchapter J. USA: 21 CFR 1040.30 Canada: C.R.C., c. 1370

2 WARNING **NOTICE NO. 2:** Lamp contains Thorium

3 WARNING **NOTICE NO. 3:** Lamp contains Thorium and Kr85

4 WARNING **NOTICE NO. 4:**

⚠ WARNING

Risk of electric shock
- Turn power off before inspection, installation, or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire
- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury
- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage
- Do not use beyond rated life. Beyond rated life, light output diminishes while energy consumption increases.
- Do not use lamp if outer glass is scratched or broken
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Use only properly rated ballast
- Do not exceed rated voltage
- Do not turn on lamp until fully installed
- Operate lamp only in specified position
- If used on a dimming system, see instructions.

⚠ CAUTION

Risk of burn
- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken
- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp
- **CAUTION**: Do not stare at light source. May be harmful to the eyes. Not applicable to diffuse coated bulbs.

INSTRUCTIONS

LAMP OPERATING CHARACTERISTICS
This is a discharge lamp and requires some time to restart and come to full brightness after a power interruption.

Relamp fixtures at or before the end of rated life. Beyond rated life, light output diminishes while energy consumption increases.

SPECIFIED OPERATING POSITIONS
VBU - Base up ± 15˚ **VBD - Base down ± 15˚**
U - Universal

Match ANSI code of lamp to code on ballast or luminaire.

Use in luminaire which comply with UL1598 or IEC 60598. Lamps are suitable for open or enclosed fixtures.

Electrically insulate any metal to bulb support in luminaire to avoid decomposition of glass.

For total load, add auxiliary watts to lamp watts.

FOR USE ON DIMMING SYSTEMS
Most vertical operating lamps are suitable for dimming. Contact your local Current sales representative

Hg LAMP CONTAINS MERCURY

Manage in Accord with Disposal Laws.
See **www.lamprecycle.org** or **1-800-327-0097**

R **WARNING:** This lamp can cause serious skin burn and eye inflammation from shortwave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available. This lamp certified to comply with FDA radiation performance standards, 21 CFR Subchapter J. USA: 21 CFR 1040.30 Canada: C.R.C., c. 1370

High Intensity Discharge Lamps

5 WARNING **NOTICE NO. 5:**

⚠ WARNING

Risk of electric shock
- Turn power off before inspection, installation, or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire
- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use fused or thermally protected ballast - see instructions

Unexpected lamp rupture may cause injury, fire, or property damage
- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn
- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken
- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

INSTRUCTIONS

LAMP OPERATING CHARACTERISTICS
This is a discharge lamp and requires some time to restart and come to full brightness after a power interruption.

For total load, add auxiliary watts to lamp watts

Relamp fixtures at or before the end of rated life. Beyond rated life, light output diminishes while energy consumption increases.

If power supply dips or is interrupted, lamps may extinguish and not restart. Turn off power supply for 10-15 minutes and allow lamp to fully cool. Lamps will restart when power is restored

Use on ballasts or systems that are either resistant to or will shut off in event of rectification

Lamp may be operated in any position.

UV Control is a quartz material that effectively cuts UVB and UVC radiation.

All MR16 and 20W PAR use only on electronic ballast.

Lamps designated as CMH70/PAR30 do not require thermally protected ballasts

Hg LAMP CONTAINS MERCURY

Manage in Accord with Disposal Laws.
See **www.lamprecycle.org** or **1-800-327-0097**

This product is in conformity with performance standards for high intensity mercury vapor lamps products under 21 CFR 1040, except with respect to those characteristics authorized by Variance Number FDA-2021-V-0995 effective September 27, 2021.

Arc tube fill gas contains Kr-85

6 WARNING **NOTICE NO. 6:**

⚠ WARNING

Risk of electric shock
- Turn power off before inspection, installation, or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire
- Keep combustible materials away from lamp
- Use in fixture rated for this product

Contains sodium – chemical burn risk
- Avoid skin contact with broken pieces

Unexpected lamp rupture may cause injury, fire, or property damage
- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not store flammable materials near/below lamp
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn
- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken
- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

INSTRUCTIONS

LAMP OPERATING CHARACTERISTICS
This is a discharge lamp and requires some time to restart and come to full brightness after a power interruption.

HPS lamps may be operated in any burn position.

Match ANSI code of lamp to code on ballast or luminaire.

Use in luminaire which comply with UL1598 or IEC 60598.

Electrically insulate any metal to bulb support in luminaire to avoid decomposition of glass.

For total load, add auxiliary watts to lamp watts.

Not for use with lampholders that have stainless steel center contacts to avoid lamp or lampholder damage due to arcing. (400W only)

FOR USE ON DIMMING SYSTEMS
Contact your local Current sales representative

Hg LAMP CONTAINS MERCURY

Manage in Accord with Disposal Laws.
See **www.lamprecycle.org** or **1-800-327-0097**

High Intensity Discharge Lamps

7 WARNING **NOTICE NO. 7:**

⚠ WARNING

Risk of electric shock
- Turn power off before inspection, installation, or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire
- Keep combustible materials away from lamp
- Use in fixture rated for this product - see instructions

Contains sodium – chemical burn risk
- Avoid skin contact with broken pieces

Unexpected lamp rupture may cause injury, fire, or property damage
- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not store flammable materials near/below lamp
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn
- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken
- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

INSTRUCTIONS

LAMP OPERATING CHARACTERISTICS
This is a discharge lamp and requires some time to restart and come to full brightness after a power interruption.

Match ANSI code of lamp to code on ballast or luminaire. Or use suitable ballast and ignitor that complies with IEC 60923 and IEC 60927.

Use in luminaire which comply with UL1598 or IEC 60598.

Fixtures must have a specially designed mogul base lamp holder and must support the end of the lamp.

In vertical base up applications with no vibration and/or shock, a tempered glass enclosed fixture may be used in place of the lamp end support.

Electrically insulate any metal to bulb support in luminaire to avoid decomposition of glass.

For total load, add auxiliary watts to lamp watts.

Not for use with lampholders that have stainless steel center contacts to avoid lamp or lampholder damage due to arcing.

FOR USE ON DIMMING SYSTEMS
Contact your local Current sales representative

Hg LAMP CONTAINS MERCURY

Manage in Accord with Disposal Laws.
See **www.lamprecycle.org** or **1-800-327-0097**

8 WARNING **NOTICE NO. 8:**

⚠ WARNING

Risk of electric shock
- Turn power off before inspection, installation, or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire
- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury
- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage
- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn
- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken
- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

INSTRUCTIONS

LAMP OPERATING CHARACTERISTICS
This is a discharge lamp and requires some time to restart and come to full brightness after a power interruption.

Lamp may be operated in any position.

For Consumer Packaging - /CP
Do not use in standard incandescent light bulb sockets. See instructions inside this carton

For total load, add auxiliary watts to lamp watts

Relamp fixtures at or before the end of rated life.
Beyond rated life, light output diminishes while energy consumption increases.

SYSTEM CHARACTERISTICS -- Use Current Approved Ballast/Control Gear. For further contact your local Current Sales representative

Hg LAMP CONTAINS MERCURY

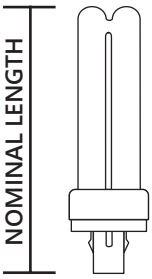
Manage in Accord with Disposal Laws.
See **www.lamprecycle.org** or **1-800-327-0097**

R **WARNING:** This lamp can cause serious skin burn and eye inflammation from shortwave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available. This lamp certified to comply with FDA radiation performance standards, 21 CFR Subchapter J. USA: 21 CFR 1040.30 Canada: C.R.C., c. 1370

Compact Fluorescent Lamps

Compact Fluorescent lighting offers high light output and long life for all your commercial plug-in applications.

REFERENCE GUIDE | BULB **IDENTIFICATION**

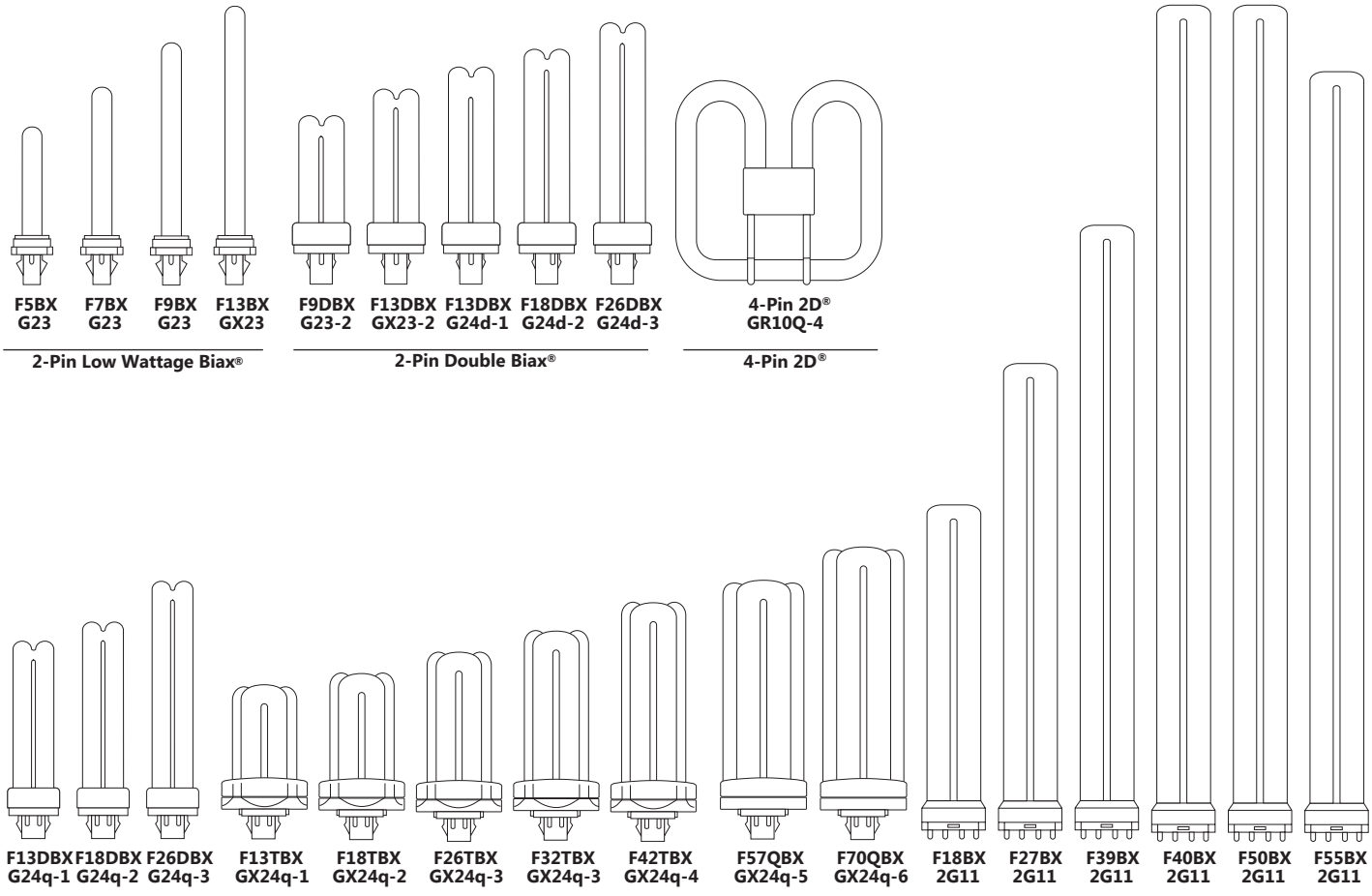


NOMINAL LENGTH:
Overall length including base or pins.

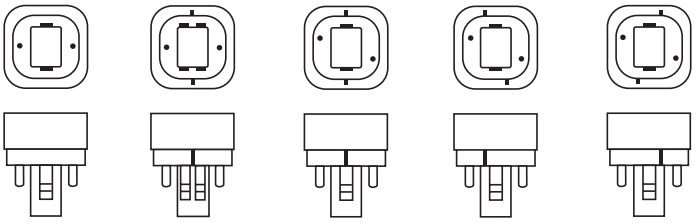
Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.

To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

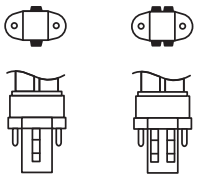
Lamp **Locator**



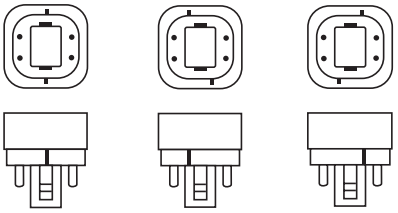
Base **Identification**



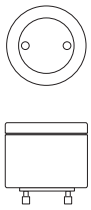
G23-2 (DBX2P) | GX23-2 (DBX2P) | G24d-1 (DBX2P) | G24d-2 (DBX2P) | G24d-3 (DBX2P)



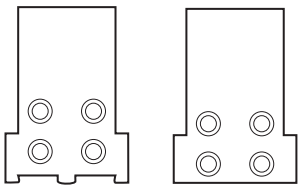
G23 (LWBX) | GX23 (LWBX)



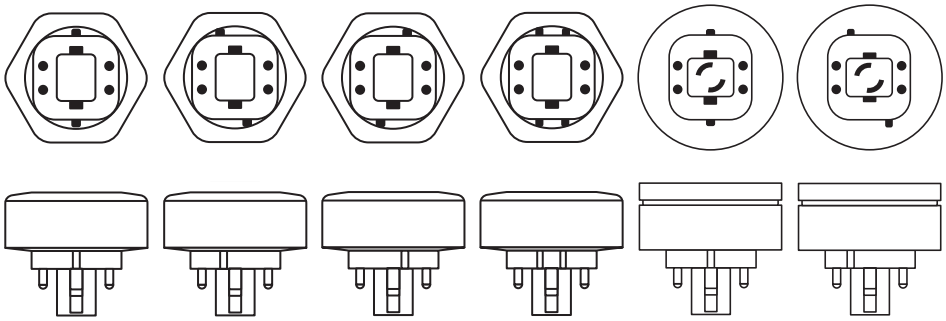
G24q-1 (DBX4P) | G24q-2 (DBX4P) | G24q-3 (DBX4P)



GU 24



GRY10q-3 (2D4P) | GR10q-4 (2D4P)



GX24q-1 (TBX4P) | GX24q-2 (TBX4P) | GX24q-3 (TBX4P) | GX24q-4 (TBX4P) | GX24q-5 (QBX4P) | GX24q-6 (QBX4P)

2G11-4 (HLBX)

Compact Fluorescent Lamps

Headings in this **Catalog Section**

The following terms and descriptions can help you when checking Compact Fluorescent lamp specifications and when ordering products. Within each product line, lamps are divided into families, within these families, lamps are then listed by wattage.

Light Output – Mean Lumens:
Lamp light output (lumens) at 40% of rated lamp life.

Light Output – Initial Lumens:
Light output (as defined by FTC Lamp Label Rules) is rated average lumens.

Rated Life
@ 3hrs. per start

Rated Life
@ 12hrs. per start

Rated Life – Hours:
Life (as defined by FTC Lamp Label Rules) is rated life in hours.

Energy Used – Nominal Watts:
Energy Used (as defined by FTC lamp label rules). To estimate energy consumption (kWh), multiply watts x hours of use and divide by 1000.

Color Temperature – Kelvins (K):
A measure of the visual "warmth" or "coolness" of the light from the lamp. The higher the value, the whiter or "cooler" the light appears.

Color Rendering Index (CRI or R):
An indication of the ability of the lamp to render object colors in a normal, natural way. The higher the number (0-100), the better the color appearance.

Nominal Length:
Lamp length including base and/or pins.

Case Quantity:
Number of product units packed in a case.

Order Code:
It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.

Description:
The lamp's identification code.

Base:
The type of base.

Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI
Self-Ballasted Lamps										
Spiral®										
GX23	13	7.0	97573	F13BX/827/ECO	100	10,000	825	710	2700	82

F13 BX3/827/ECO

- F13 — Identifies as Fluorescent Lamp
- BX3 — Identifies Wattage
- 827 — Identifies Lamp Shape
- ECO — Identifies Lamps Color
- Identifies TCLP Compliant lamp

Hg

Lamp Contains Mercury.
Manage in Accord with Disposal Laws.
See **www.lamprecycle.org** or **1-800-327-0097**

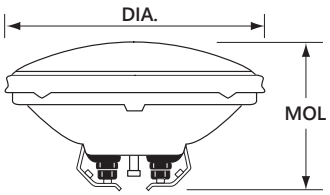
PLUG-IN **LAMPS**

Base	Watts	Nominal Length (in.)	Order Code	Description	Case Qty	Rated Life (hrs.)	Initial Lumens	Mean Lumens	Color Temp K	CRI
2-Pin Low Wattage Biax®										
GX23	13	7.0	97573	F13BX/827/ECO	100	10000	825	710	2700	82
	13	7.0	97569	F13BX/835/ECO	100	10000	825	710	3500	82
	13	7.0	97571	F13BX/841/ECO	100	10000	825	710	4100	82
4-Pin High Lumen Biax®										
2G11	18	9.0	16649	F18BX/SPX30 10PK	40	10000	1200	1080	3000	82
	18	9.0	16053	F18BX/SPX35 10PK	40	10000	1200	1080	3500	82
	18	9.0	16940	F18BX/SPX41 10PK	40	10000	1200	1080	4100	82
	40	22.5	16953	F4030BXSPX30 10P	40	20000	3150	2840	3000	82
	40	22.5	16648	F40/30BX/SPX35	40	20000	3150	2840	3500	82
	40	22.5	16954	F40/30BX/SPX41	40	20000	3150	2840	4100	82
	25	21.5	75400	F40/25BX835/IS/WM	40	20000	2600	2400	3500	82
	55	20.7	31952	F55BX/835	25	20000	4800	4080	3500	82
	55	20.7	31953	F55BX/840	25	20000	4800	4080	4100	82
2-Pin Double Biax®										
GX23-2	13	4.7	97586	F13DBX23/827/ECO	50	12000	810	685	2700	82
	13	4.7	97588	F13DBX23/835/ECO	50	12000	810	685	3500	82
	13	4.7	97589	F13DBX23/841/ECO	50	12000	810	685	4100	82
G24d-2	18	6.1	97577	F18DBX/827/ECO	50	12000	1250	980	2700	82
	18	6.1	97579	F18DBX/835/ECO	50	12000	1250	980	3500	82
	18	6.1	97580	F18DBX/841/ECO	50	12000	1250	980	4100	82
G24d-3	26	6.7	97606	F26DBX/827/ECO	50	12000	1710	1460	2700	82
	26	6.7	97608	F26DBX/835/ECO	50	12000	1710	1460	3500	82
	26	6.7	97609	F26DBX/841/ECO	50	12000	1710	1460	4100	82
4-Pin Double Biax®										
G24q-1	13	5.0	97594	F13DBX/827/ECO4P	50	17000	900	755	2700	82
	13	5.0	97595	F13DBX/830/ECO4P	50	17000	900	755	3000	82
	13	5.0	97596	F13DBX/835/ECO4P	50	17000	900	755	3500	82
	13	5.0	97597	F13DBX/841/ECO4P	50	17000	900	755	4100	82
G24q-2	18	5.8	97598	F18DBX/827/ECO4P	50	17000	1250	970	2700	82
	18	5.8	97599	F18DBX/830/ECO4P	50	17000	1250	970	3000	82
	18	5.8	97600	F18DBX/835/ECO4P	50	17000	1250	970	3500	82
	18	5.8	97601	F18DBX/841/ECO4P	50	17000	1250	970	4100	82
G24q-3	26	6.4	97610	F26DBX/827/ECO4P	50	17000	1800	1530	2700	82
	26	6.4	97611	F26DBX/830/ECO4P	50	17000	1800	1530	3000	82
	26	6.4	97612	F26DBX/835/ECO4P	50	17000	1800	1530	3500	82
	26	6.4	97613	F26DBX/841/ECO4P	50	17000	1800	1530	4100	82
4-Pin Triple Biax®										
GX24q-3	26	5.2	97614	F26TBX/827/A/ECO	10	17000	1800	1530	2700	82
	26	5.2	97615	F26TBX/830/A/ECO	10	17000	1800	1530	3000	82
	26	5.2	97616	F26TBX/835/A/ECO	10	17000	1800	1530	3500	82
	26	5.2	97617	F26TBX/841/A/ECO	10	17000	1800	1530	4100	82
	32	5.5	97629	F32TBX/827/A/ECO	10	17000	2400	2040	2700	82
	32	5.5	97630	F32TBX/830/A/ECO	10	17000	2400	2040	3000	82
	32	5.5	97631	F32TBX/835/A/ECO	10	17000	2400	2040	3500	82
	32	5.5	97632	F32TBX/841/A/ECO	10	17000	2400	2040	4100	82
GX24q-4	42	6.4	97633	F42TBX/827/A/ECO	10	17000	3200	2690	2700	82
	42	6.4	97634	F42TBX/830/A/ECO	10	17000	3200	2690	3000	82
	42	6.4	97635	F42TBX/835/A/ECO	10	17000	3200	2690	3500	82
	42	6.4	97636	F42TBX/841/A/ECO	10	17000	3200	2690	4100	82
GX24q-3	32	5.5	97629	F32TBX/827/A/ECO	10	17000	2400	2040	2700	82
	32	5.5	97630	F32TBX/830/A/ECO	10	17000	2400	2040	3000	82
	32	5.5	97631	F32TBX/835/A/ECO	10	17000	2400	2040	3500	82
	32	5.5	97632	F32TBX/841/A/ECO	10	17000	2400	2040	4100	82
GX24q-4	42	6.4	97633	F42TBX/827/A/ECO	10	17000	3200	2690	2700	82
	42	6.4	97634	F42TBX/830/A/ECO	10	17000	3200	2690	3000	82
	42	6.4	97635	F42TBX/835/A/ECO	10	17000	3200	2690	3500	82
	42	6.4	97636	F42TBX/841/A/ECO	10	17000	3200	2690	4100	82

Halogen Lamps

Halogen Lighting offers unmatched quality of white light in compact sizes.

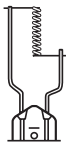
REFERENCE GUIDE | BULB **IDENTIFICATION**



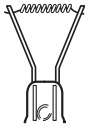
DIA. in.: Diameter of bulb at widest point.
MOL in.: Maximum Overall Length including base or pins.
LCL in.: Distance between the center of the filament and the Light Center Length reference plane.
Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.

To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

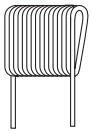
FILAMENT **IDENTIFICATION**


C-8
CC-8


C-2V
CC-2V


C-6
CC-6


C-8
CC-8


C-6
Oval

BASE **IDENTIFICATION**


2-Pin
(Round)
GX5.3


Can DC Bay


2-Pin
GY6.35


Recessed
Single
Contact
R7s


Screw
Terminals


4" Leads


1" Ribbon
Leads


6" Flex
Leads


2-Pin
GU4


2-Pin
GU5.3


2-Pin
G4


Turn & Lock
GU7


GU10


G8

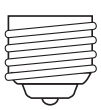

G9

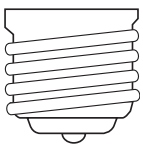

2-Pin Pf

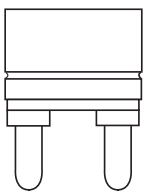

Min Screw
E10

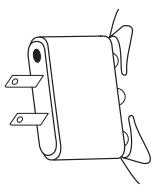

DC Bay
BA15d

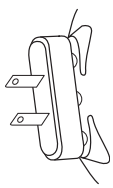

Min Cand
E11

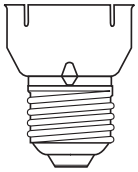

Med Screw
E26


Mog Screw
E39


Mogul
BiPost
G38

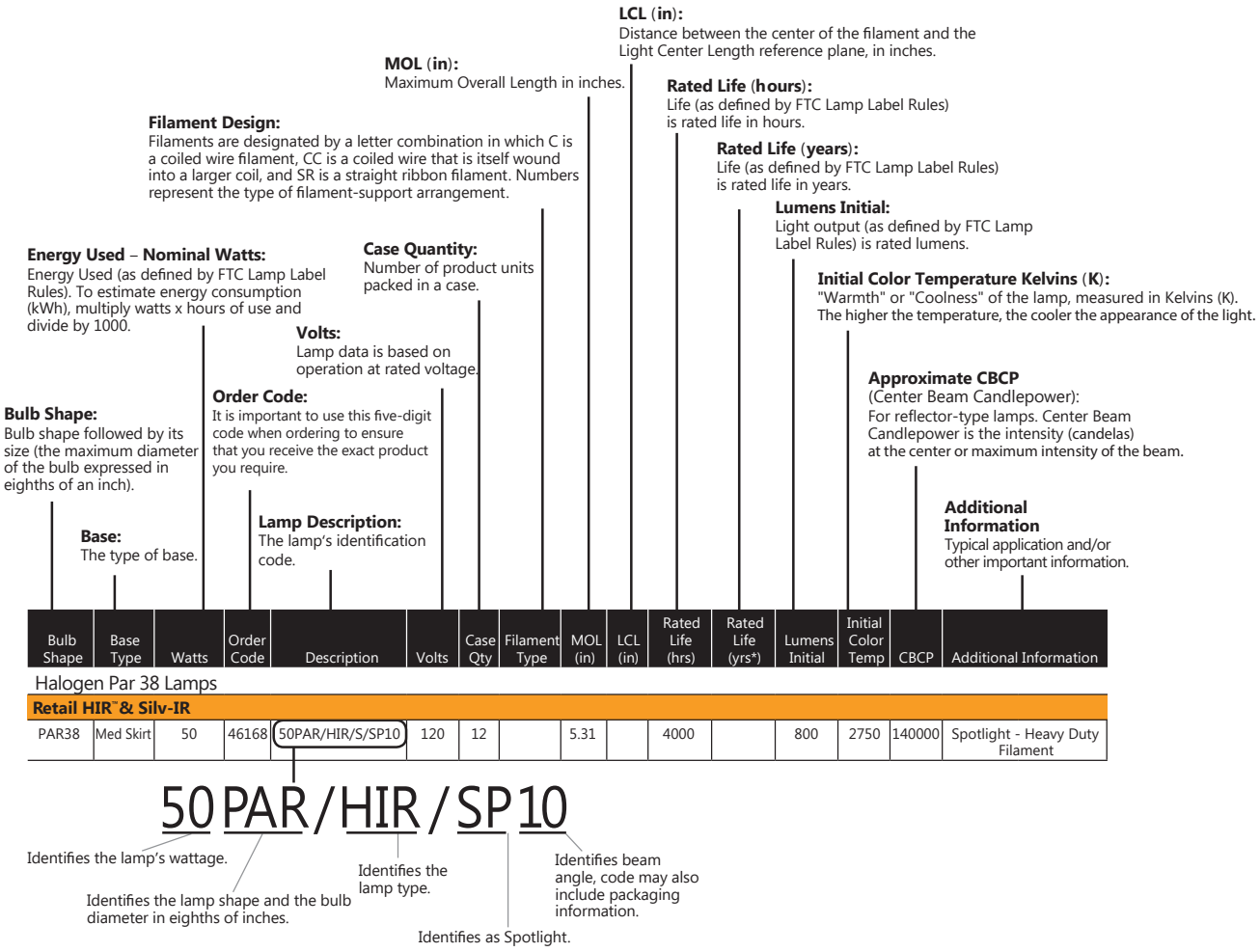

Ext. Mog
End Pr
GX16d


Mog End
PR
GX16d


Med
Skirted
E26/50x39

Headings **in this Catalog Section**

The following terms and descriptions can help you when checking Halogen lamp specifications and when ordering products. Within each product line, lamps are divided into families. Within families, lamps are listed by wattage. In each of these groups, lamps are listed alphabetically by bulb shape.



WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify bulb shape next to lamp information.
2. Measure bulb diameter using ruler in Appendix section page D-1 to determine width in eighths of an inch.
3. Identify base type using table on page 2-2.
4. Find your lamp in the table containing the bulb shape, size and base, which are all listed by wattage.

Halogen Lamps

HALOGEN **LAMPS**

Bulb Shape	Base	Watts	Order Code	Description	Volts	Case Qty	Filament Design	MOL (In)	LCL (In)	Rated Life (hrs*)	Lumens Initial	Color Temp K	CBCP	Additional Information
Standard Halogen														
PAR38	Med Skirt	38	69136	38PARH1500FL25	120	12	CC-8	5.31		1500	520	2000	2850	Floodlight
		60	62704	60PARH1500FL25TP	120	6	CC-8	5.31		1500	1070	2900	4050	Floodlight
		90	62705	90PARH1500SP10TP	120	6	CC-8	5.31		1500	1790	2900	26450	Spotlight
		90	62706	90PARH1500FL25TP	120	6	CC-8	5.31		1500	1790	2900	6850	Floodlight
Compact PAR30 Long Neck														
PAR30L	Med	38	69168	38PAR30L/H/FL25	120	6	CC-8	4.75		1500	550	1500	2850	Floodlight
Compact PAR30														
PAR30	Med	38	69166	38PAR30H/FL25	120	6	CC-8	3.62		1500	580	1750	2850	Floodlight
Compact PAR20														
PAR20	Med	38	69163	38PAR20H/FL25	120	6	CC-8	3.13		1500	490	1450	2850	Floodlight
		38	69164	38PAR20H/SP10	120	6	CC-8	3.13		1500	490	3800	2850	Spotlight
Compact PAR36														
PAR36	Scrw Term		19877	35PAR36/H/FL30	12	12	C-6	2.75		4000	250	3050	900	Floodlight
A-19														
A19	Med	29	63002	29A/W/H-2PK	120	6	CC-8	4.43		1000	430	2850		Soft White, Halogen, 2-Pack
		43	63003	43A/W/H-2PK	120	6	CC-8	4.43		1000	620	2900		Soft White, Halogen, 2-Pack
		53	63004	53A/W/H-2PK	120	6	CC-8	4.43		1000	1050	2950		Soft White, Halogen, 2-Pack
		72	63005	72A/W/H-2PK	120	6	CC-8	4.43		1000	1270	3000		Soft White, Halogen, 2-Pack
AR111														
AR111	G53	35	97533	35AR111/FL24	12	10	C-8	2.64		3000		2800	2500	Narrow Floodlight
		50	97535	50AR111/FL24	12	10	C-8	2.64		3000		2800	3500	Narrow Floodlight
Standard MR16														
MR16	2-Pin GX5.3	20	34241	20T61/2DC/F	120	60	C-8	5.56		5000	90			Frost-Exit Light
		50	25482	Q50MR16/FL	12	20	C-6	1.88		2000	890	2900	1500	Flood, ANSI: EXN
Standard MR11														
MR11	2-Pin G4	20	30773	Q20MR11/NFL30	12	10	C-6	1.38		3500		2900	600	Soft White
120V GU10														
MR16	GU10	50	82143	Q50GU10FL/RVL-CD	120	6	CC-2V	2.13		3000	400	2750	400	Reveal®, Floodlight, Carded
Low Voltage														
T3	2-Pin G4	5	42959	Q5T3/CL	12	100	C-6	1.25 cm	0.75	2000	60			Clear
		10	34674	Q10T3/CL	12	100	C-6	1.25 cm	0.75	2000	140			Clear
		20	34715	Q20T2.5/12V/CL	12	100	C-6	1.25 cm	0.75	2000	350			Clear, 12V
T3	2-Pin GY6.35	35	34708	Q35T3/12V/CL	12	100	C-6	1.75 cm		2000	550			Clear, 12V
		50	34702	Q50T3/12V/CL	12	100	C-6	1.75 cm		2000	850			Clear, 12V
Halogen G9														
T4	G9	25	16754	Q25G9/CD	120	5	CC-8	1.77	1.26	3000	240	6250		Carded
		40	16755	Q40G9/CD	120	5	CC-8	1.77	1.26	3000	480	2750		Carded
Halogen Double Contact Bayonet (BA15d)														
T4	D C Bay BA15d	100	15508	Q100CL/DC	120	6	CC-8	2.44	1.38	2000	1600	2950		Clear
		150	43693	Q150CL/DC	120	6	CC-8	2.50	1.38	2000	2800	2950		Clear
		250	43697	Q250CL/DC	120	6	CC-8	3.00	1.63	2000	5000	2950		Clear
Halogen Recessed Single Contact (R7s)														
T3	R7s	100	22489	Q100T3/CL/CD 5PK	210	60	C-8	3.13	1.25	1500	1650	2950		Clear, Horizontal, Carded
		150	19378	Q150T3/CL/CD 5PK	120	60	C-8	3.13	1.25	1500	2400	2950		Clear, Horizontal, Carded
T2.5	R7s	300	43703	Q300T3/CL-6PK	120	144	C-8	4.69	2.25	2000	5950	2950		Clear, Horizontal
		500	23731	Q500T3/CL	120	12	C-8	4.69	2.25	2000	11100	3000		Clear, Horizontal
		500	23733	Q500T3/CL	130/120	12	C-8	4.69	2.25	2000	10550	3000		Clear, Horizontal
T3	R7s	1500	23830	Q1500T3/CL	240	12	C-8	10.06 cm	6.31 cm	2000	32000	3050		Clear, Horizontal

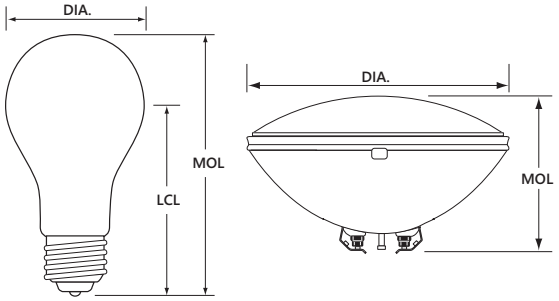
HALOGEN **LAMPS** (Cont.)

Bulb Shape	Base	Watts	Order Code	Description	Volts	Case Qty	Filament Design	MOL (In)	LCL (In)	Rated Life (hrs*)	Lumens Initial	Color Temp K	CBCP	Additional Information
Halogen Miniature Candelabra Screw (E11)														
T4	Mini-Cand	100	15507	Q100CL/MC	120	6	CC-8	2.81	1.38	2000	1600	2950		Clear
T4	Mini-Cand	150	43694	Q150CL/MC	120	6	CC-8	3.00	1.38	2000	2800	2950		Clear
		250	43699	Q250CL/MC	120	6	CC-8	3.16	1.63	2000	5000	2950		Clear
		250	43700	Q250CL/MC	130/120	6	CC-8	3.16	1.63	2000	5000	2950		Clear
		400	43707	Q400CL/MC	120	6	CC-8	3.62	2.00	2000	8250	2950		Clear
Recessed Single Contact (R7s)														
T3	R7s	3650	10872	QH3650T3/CL/5	480	6	C-8	41.63	38.00	5000		2500		Infrared, Horizontal
Other														
T3	Ceramic Sleeve	2000	12716	QH2MT3/CL/HT/R	230	12	C-8	13.00	11.00	5000		2450		Infrared, Clear, High Temp, Horizontal, Reflector 170°
T3	CER	2500	28126	QH2.5MT3/CL/HT/R	400	12	C-8	15.1	12.3	5000		2450		Infrared, High Temp, Horizontal, Reflector 170
	CER	3000	28127	QH3MT3/CL/HT/R	400	12	C-8	15.1	12.3	5000		2450		Infrared, High Temp, Horizontal, Reflector 170

Incandescent Lamps

Incandescent Lighting is the familiar, dependable light source you've known for decades.

REFERENCE GUIDE | BULB **IDENTIFICATION**



DIA: Diameter of bulb at widest point.

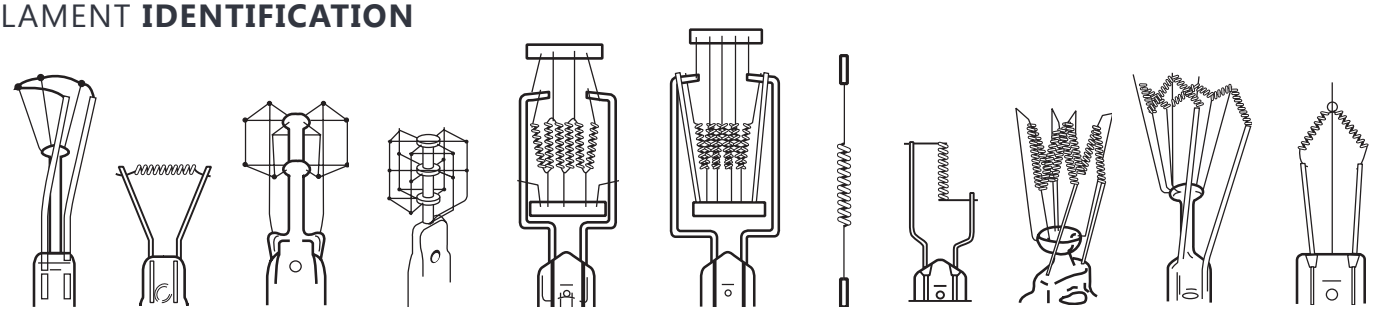
MOL: Maximum Overall Length including base or pins.

LCL: Distance between the center of the arc tube and the Light Center Length reference plane.

Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.

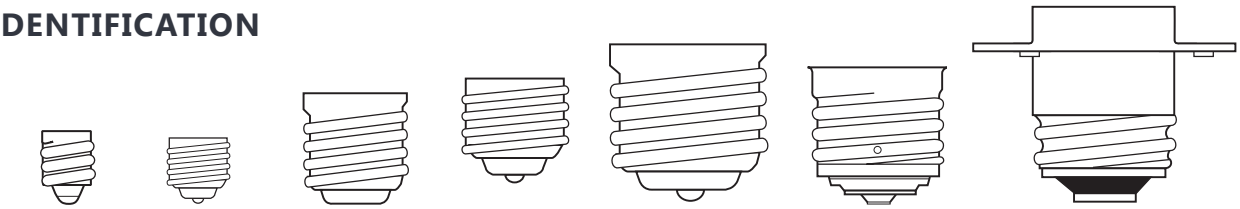
To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

FILAMENT **IDENTIFICATION**

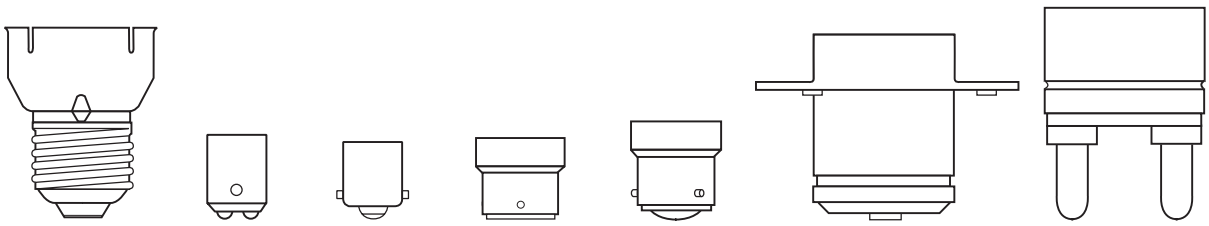


C-9 | C-6, CC-6 | C-17 | C-22 | C-13 | C-13D | C-8, CC-8 | C-8, CC-8 | C-5 | C-7A | C-2V, CC-2V

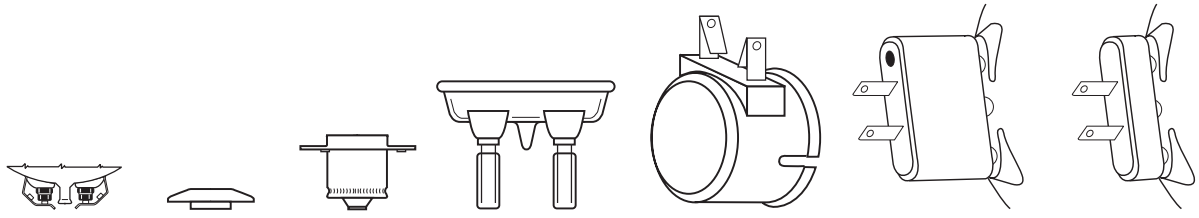
BASE **IDENTIFICATION**



Cand Screw E12 | Intermediate E17 | 3 Contact Med E26 | Med Screw E26 | Mog Screw E39 | 3 Contact Mogul E39D | Mog Pf P40s

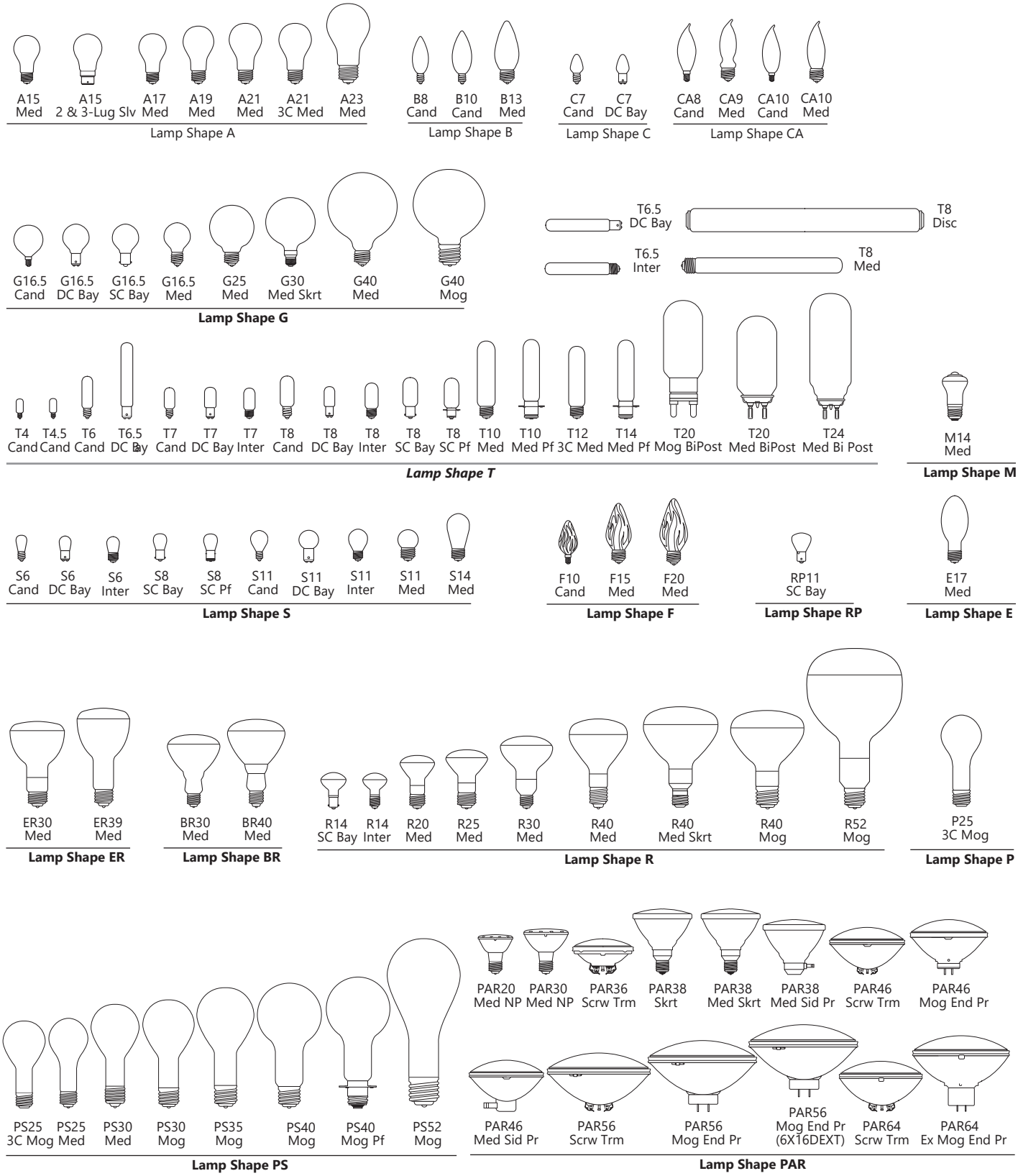


Med Skirt E26/50x39 | Can DC Bay | Can SC Bay B15 | 2-Lug Sleeve B22d | 3-Lug Sleeve B22-3 | Med Pf P28s | Mogul BiPost G38



Screw Terminal | Disc Base | Single Contact Pf | Med BiPost | Med Side Pr | Ext. Mog End PR GX16d | Mog End PR GX16d

LAMP **LOCATOR**

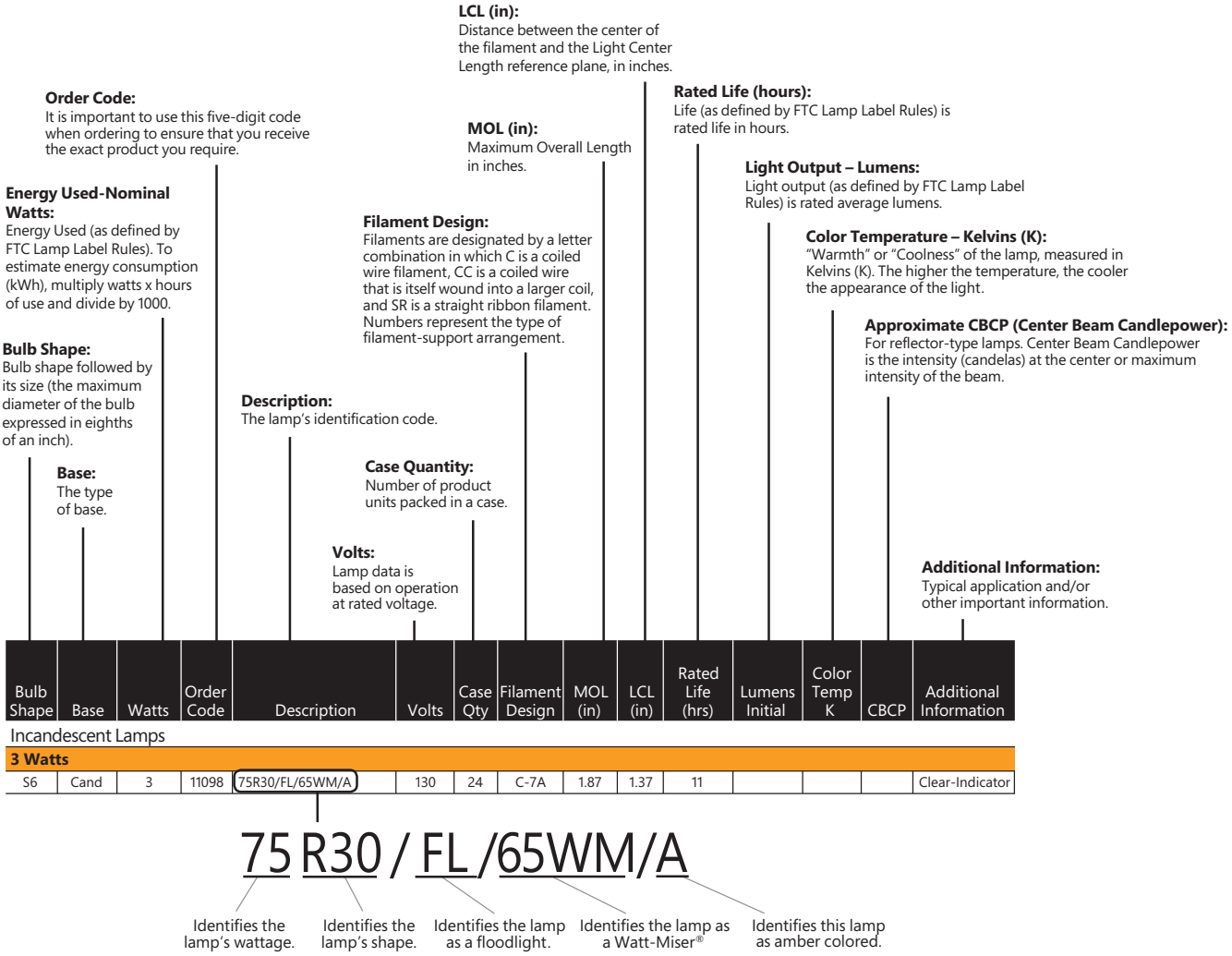


Incandescent Lamps

Headings **in this Catalog Section**

The following terms and descriptions can help you when checking Incandescent lamp specifications and when ordering products.

Within this product line, lamps are divided by wattage. Within wattage, lamps are listed alphabetically by bulb shape.



Bulb Shape	Base	Watts	Order Code	Description	Volts	Case Qty	Filament Design	MOL (in)	LCL (in)	Rated Life (hrs)	Lumens Initial	Color Temp K	CBCP	Additional Information
Incandescent Lamps														
3 Watts														
S6	Cand	3	11098	75R30/FL/65WM/A	130	24	C-7A	1.87	1.37	11				Clear-Indicator

75 R30 / FL /65WM/A

- 75 — Identifies the lamp's wattage.
- R30 — Identifies the lamp's shape.
- FL — Identifies the lamp as a floodlight.
- 65WM — Identifies the lamp as a Watt-Miser®
- A — Identifies this lamp as amber colored.

INCANDESCENT **LAMPS**

Bulb Shape	Base	Watts	Order Code	Description	Volts	Case Qty	Filament Design	MOL (In)	LCL (In)	Rated Life (hrs*)	Lumens Initial	Color Temp K	Additional Information
3-8 Watts													
S6	Cand	3	11098	3S6/5 24PK	130	24	C-7A	1.87	1.37	3000	11		Clear-Indicator
S6	Cand	6	11577	6S6/3	120	240	C-7A	1.87	1.37	5000	23		Clear-Signal Light
		6	11374	6S6	155	240	C-7A	1.87	1.37	1500	38		Clear-Indicator
T4.5	Cand	6	11764	6T41/2/1	130	100	C-7A	1.87	1.31	1500	42		Clear-Indicator
C7	Cand	7	11792	7C7 TRAY	130	240	C-7A	2.12		3000	46		Clear-Indicator, 12-Lamp Tray
S11	Med	8	11848	7 1/2S TRAY	130	240	C-9	2.25		1400	53		Clear-12-Lamp Tray
15 Watts													
A15	Med	15	97491	15A/W-2PK	120	24	C-9	3.50	2.37	2500	110		Soft-White
		15	12658	15A15	130	120	C-9	3.50	2.37	2500	115		Inside Frost
S11	DC Bay	15	13188	15S11/3DC	75	120	C-9	2.37	1.25	1000	138		Clear-Train
T6	Cand	15	13402	15T6	145	60	C-7A	3.06	1.56	1500	102		Clear-Exit
T7	Cand	15	13494	15T7C	120	120	C-7A	2.25	1.50	3000	108		Clear-Signal Light, Appliance
18 Watts													
S11	SC Bay BA15s	18	13655	18S11/1SC	10	120	CC-6	2.37	1.25	2000	200		Clear-Railway Signal Light
20 Watts													
T6.5	DC Bay	20	34241	20T61/2DC/F	120	60	C-8	5.56		5000	90		Frost-Exit Light
T6.5	Inter	20	34272	20T61/2/F	120	60	C-8	5.50		7000	90		Frost-Exit Light
25 Watts													
A19	Med	25	97492	25A/W-2PK	120	24	CC-6	4.25	2.50	2500	210		Soft White
R14	SC Bay B15	25	33405	25R14SC/SP	12	120	CC-8	2.62		2000	200		Reflector Spot, Light Inside Frost
T7	DC Bay	25	14741	25T7DC	120	60	C-7A	2.25	1.31	1000	195		Clear-Appliance
T7	Inter	25	14791	25T7N	120	60	C-7A	2.25	1.56	1000	195		Clear-Appliance
T10	Med	25	14880	25T10 24PK	120	192	C-8	5.60		1000	250		Clear-Display Light
B10	Med	25	22756	25BM CD2	120	60	C-7A	4.62		1500	170	2500	Clear, Blunt Tip
CA10	Cand	25	15777	25CAC 25PK	120	200	CC-2V	4.12		1500	220	2500	Clear, Bent Tip
		25	40045	25CAC/L	120	120	CC-2V	4.12		4000	210	2500	Clear, Bent Tip, Brass Base, LL
40 Watts													
A15	Med	40	15199	40A15	120	120	C-9	3.50	2.37	1500	415	2600	Clear-Appliance and Oven Service, Vibration Resistant
		40	15206	40A15 CARD 12PK	120	60	C-9	3.50	2.37	1500	415	2600	Clear-Appliance and Oven Service, Vibration Resistant
T10	Med	40	15892	40T10/F	120	120	C-8	5.60		1000	415	2500	Frost-Display Light
		40	15788	40BC 25PK	120	200	CC-2V	3.75		1500	370	2500	Clear, Blunt Tip
CA10	Cand	40	15778	40CAC 25PK	120	200	CC-2V	4.12		1500	370	2500	Clear, Bent Tip
G25	Med	40	12979	40G25/W 6PK	120	6	CC-6	4.50		1500	370	2500	White, Globe, BDTH
		40	12980	40G25 6PK	120	6	CC-6	4.50		1500	410	2500	Clear, Globe, BDTH
45 Watts													
R20	Med	45	14878	45R20MI/1-6PK	120	30	CC-6	3.31		2000	310	2600	Indoor Reflector
		45/40	73029	45R20/130V	130/120	30	CC-6	3.31		2000/4000	300/225	2500	Indoor Reflector
50 Watts													
A19	Med	50	16201	50A19/RS/SH	75	120	C-9	3.87	2.50	1000	500		Train, Rough Service Short
50/100/150 Watts													
A21	Med	50/100/150	97494	50/150-1PK	120	12	CC-8	5.25	3.87	1200	615/1540/2155	2800	Soft-White, 3-Way
60 Watts													
A19	Med	60/53	72549	60A/RS/STG-T2/12	130/120	24	C-7A	4.13	2.91	2000/5400	500/380		Rough Service Saf-T-Gard®
A15	Med	60	46888	60A15CF/STGPQ2/6	120	30	C-9	3.50	2.37	1500	635	2700	Ceiling Fan Saf-T-Gard®
65 Watts													
BR30	Med	65	20331	65R30/FL/MI- 6PK	120	30	CC-6	5.37		2000	700	2600	Indoor Reflector, Flood
		65	46855	65R30/FL	130	30	CC-6	5.37		2000 /5200	670/510	2600	Watt-Miser® Reflector
BR40	Med	65	14016	65R40/FL/MI-6PK	120	30	CC-6	6.56		2000	580	2600	Indoor Reflector, Flood
100/200/300 Watts													
PS25	Mog	100/200/300	41459	100/300 6PK	120	30	CC-6	6.68	4.43	1200	1250/2650/3900	2800	Soft-White, 3-Way

Incandescent Lamps

INCANDESCENT **LAMPS** (Cont.)

Bulb Shape	Base	Watts	Order Code	Description	Volts	Case Qty	Filament Design	MOL (In)	LCL (In)	Rated Life (hrs*)	Lumens Initial	Color Temp K	CBCP	Additional Information
120 Watts														
BR40	Med	120	47725	120R40FL/STG PQ6	130	30	CC-11	6.56		2000	1025	2700	1200	Reflector, Saf-T-Guard®
150 Watts														
A21	Med	150	10429	150A/W 12PK	120	12	CC-8	5.37	4.06	750	2680	2900		Soft-White
200 Watts														
A21	Med	200	16069	200A/CL-1 12PK	120	12	CC-8	5.37	4.06	750	3780	2900		Crystal
		200/177	25936	200A21/99/IF	130/120	60	CC-8	5.37	4.06	2500/6800	2780/2140			I.F.-Extended Service (Ratings @ 120 volts)
PAR56	Scrw Term	200	20122	200PAR	30	12	CC-8	4.50		350			230000	Locomotive Headlight
250 Watts														
R40	Med	250	37770	250R40/1 6PK	120	30	C-9	6.56		5000	2200			Reflector-Warm Up Infrared Heat Lamp-Clear Face
R40	Med	250	47724	250R40/1/STG PQ6	120	30	C-9	6.56		5000				Heat Lamp Saf-T-Gard® – Shatter-Resistant
300 Watts														
PS25	Med	300/266	73788	300M/130V-PK6	130/120	6	CC-8	6.93	4.92	750/1950	6120/4650			Clear
		300/266	73790	300M/IF/130V-PK3	130/120	3	CC-8	6.93	4.92	750/1950	6120/4650			Inside Frost
PS35	Mog Screw	300	21025	300	130	24	C-9	9.37	7.00	1000	5820			Clear
		300	21079	300/IF	130	24	C-9	9.37	7.00	1000	5820			Inside Frost
		300	20849	300PAR56/WFL	120	12	CC-13	5		2000	3840	2750	11000	Wide Flood
350 Watts														
PAR56	Scrw Term	350	19866	350PAR56/SP	75	12	CC-8	4.50		500	6200			Ditch Light-Locomotive
375 Watts														
R40	Med Skirt	375	21334	375R40/1	115	24	C-9	7.50		5000	2700		1170	Reflector Infrared Industrial-Clear Face, HRG, BB
500 Watts														
PS35	Mog Screw	500	21532	500	130	24	CC-8	9.37	7.00	1000	10850			Clear, BB
620 Watts														
PS40	Mogul PF	620	21952	620PS40P	130	24	C-9	10.06	5.68	3000	11200			Clear

Fluorescent Ballasts

UNDERSTANDING **FLUORESCENT BALLASTS**

A comprehensive range of solutions...from GE, the name you trust.

GE introduced the first fluorescent ballast more than 60 years ago. Today we are providing high-frequency electronic ballasts for almost every fluorescent application.

With our UltraMax® and UltraStart® ballasts, we are bringing you the future in ballast performance.

GE revolutionizes lighting again with breakthrough technology. Our patented UltraMax® instant-start and UltraStart® programmed start electronic ballasts transform the power of light into efficiency and savings from store shelves to the installation site. The foundation of the "Ultra" family of ballasts starts with its high efficiency ratings. High efficiency ballasts are a minimum of 90% efficiency with some ballasts nearly 95% efficient which means the ballast only consumes 5-10% of the total system power. These high efficiency ballasts exceed minimum high efficiency standards as established by almost all energy advocate groups, utility rebate programs and the NEMA Premium® ballast program. The ballasts are marked with the Ultra brand as well as the NEMA Premium® ballast mark. These ballasts have multi-voltage control (MVC), which automatically adjusts to handle voltage from 120V through 277V. That cuts the ballast models you need to stock from 40 down to 13, which can dramatically reduce inventory carrying costs. UltraMax® ballasts have ArcGuard Protection, too, with a UL Type CC Anti-Arc Rating. Plus, they're ultra-lamp-friendly, with a low lamp current crest factor of 1.4 for optimal lamp performance. Both UltraMax® and UltraStart® have anti-striation control for better light quality with no lamp striations (spiraling). And the small, low-profile design of these ballasts makes retrofits effortless at the job site. Also unique to our programmed start UltraStart® ballasts is parallel lamp operation which means that if one lamp fails the others remain on, and quick starting times of less than 700 milliseconds which is necessary in avoiding delays with automatic sensors.

GE Fluorescent Ballast Types

Electronic Instant Start

The most common fluorescent ballast is the instant start and is used typically in long 3 to 10-hour lamp cycle applications. These ballasts are energy efficient and can deliver 20% to 40% energy savings when installed with energy-efficient lamps in building retrofits. These ballasts deliver >550 open circuit volts when starting lamps and operate lamps at high frequencies which offers flicker-free operation and better lamp efficiencies.The ballasts are significantly quieter than conventional magnetic ballasts and are backed by GE's ultra system 5-year ballast limited warranty and extended lamp warranties.

UltraMax® Professional Series
A family of high-efficiency GE T8 instant-start electronic linear fluorescent ballasts designed to optimize GE's T8 Ultra lamps for optimal system energy savings. UltraMax® ballasts have a low lamp current crest factor and virtually "read" and adapt to incoming voltage from 108V to 305V. Other features include UL Type CC Anti-Arc Rating and anti-striation control to eliminate lamp striations and spiraling. These ballasts are offered in ballast factors: low wattage (.77), normal light (.87), normal-high (N+) (1.0) and high (>1.15).

UltraMax® General Series
Offered in dedicated or multi-volt (120-277V), these high performance T8 instant-start ballasts also meet minimum efficiency requirements as established with the NEMA Premium® ballast program. These ballasts are offered in ballast factors: low wattage (.77), normal light (.87), and high (>1.15).

Programmed Instant Start

Programmed Start electronic ballasts have a lamp starting method that preheats lamp filaments before applying an open circuit voltage (OCV) to start the lamp. Use Programmed Start ballasts to ensure long lamp life when turning lamps on and off more than five times in a day or in conjunction with any automatic light control or sensor. This type of starting circuit keeps lamp-end blackening to a minimum and improves lamp life performance, especially in applications where the lamps are frequently switched on and off.

UltraStart®

UltraStart® is a family of high-efficiency GE Programmed Start electronic linear fluorescent ballasts that also exceed NEMA Premium® ballast efficiency requirements but are designed to optimize GE's T8 Ultra lamps in frequently switched applications. Instant start ballasts provide 7,000-13,000 starts before 50% lamp failure. UltraStart® provides greater than 100,000 starts before 50% lamp failure. UltraStart® ballasts provide the same energy savings and convenience of instant start ballasts but with the longer lamp life offered a programmed start ballast. These ballasts are offered in ballast factors: programmed start x-low wattage (XL) (.60), low wattage (.71), normal light (.87), and high (>1.15).

Ballast Date Codes

Date Code

GE electronic ballast manufacturing date codes are located on the upper right-hand corner of the label. The code lists the month, year and day of manufacture. A typical code is C16-073, where the month is listed as A (January), B (February), C (March) as in this code followed by the year 16 (2016) and the date of manufacture 073 (the 73rd day of 2016).

Ballast Life

GE electronic ballasts are designed and manufactured to an average life expectancy of 60,000 hours of operation at maximum rated case temperatures. As a rule of thumb, ballast life is doubled for every 10C reduction in ballast case temperature. However there are other variables such as transients, voltage sags and swells, ambient temperature, etc., which affect ballast life as well.

Instant Start vs. Rapid Start Sockets

When using programmed start or dimming ballasts in fixtures, sockets must be 2-pin rapid start type. Fixtures with T8 instant start ballasts must use jumpered rapid start sockets or shunted lamp holders (internal to the lamp holder) that bridge the lamp bi-pins together into one contact on each side of the lamp. If retrofitting from a instant start ballast fixture with shunted sockets to a dimming or programmed start ballast, rapid start type sockets must be used to properly start lamps and maintain rated lamp life.

UltraMax® Professional Series
Instant Start Multi-Voltage 120–277V High-Efficiency
T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

72258 – GE132MAXP-L/ULTRA

UltraMax® P-Series Instant Start
Multi-Voltage High-Efficiency

1 – F32T8 120 to 277 "L" .77 BF UltraMax® P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

General Characteristics	
Ballast Type	Electronic – High-Efficiency Multivolt Instant Start
Starting Method	Instant Start
Lamp Wiring	
Line Voltage Regulation(+/-)	10%
Ambient Temperature (MAX)	55°C (131°F)
Case Temperature (MAX)	70°C (158°F)
Ballast Factor	Low
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Enclosure Type	Metal
Additional Info	Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P

Electrical Characteristics	
Supply Current Frequency	50 Hz/60 Hz

Dimensions	
Length (L)	9.5 in (241 mm)
Width (W)	1.3 in (33 mm)
Height (H)	1.0 in (25.4 mm)
Mounting Dimensions	
Mount Length (M)	8.9 in (226 mm)
Mount Width (X or F)	0.87 in (22 mm)
Mount Slots (MS)	0.3 in (8 mm)
Weight	0.6lbs
Exit Type	Side
Remote Mounting Distance to Lamp (F32T8)	18 ft
Remote Mounting Wire Gauge	18 AWG
Lead Lengths	
Black	25 in (635 mm)
White	25 in (635 mm)
Blue	31 in (787 mm)
Red	37 in (940 mm)

Specifications and lamp wattage

Lamp	# of Lamps	Line Volts (V)	System Watts (W)	Nom. Line Current (A)	System Ballast Factor	Ballast Efficacy Factor	Power Factor % (>=)	Crest Factor (<=)	THD% (<=)	Min Starting Temp (°F/°C)
F32T8	1	120	25	0.22	.78	3.12	99	1.5	10	-22/-30
	1	277	25	0.10	.78	3.12	94	1.5	10	-22/-30
F32T8/WM	1	120	24	0.21	.77	3.21	99	1.5	10	-22/-30
	1	277	24	0.09	.77	3.21	94	1.5	10	-22/-30
F28T8	1	120	22	0.20	.81	3.68	99	1.5	10	-22/-30
	1	277	22	0.09	.81	3.68	94	1.5	10	-22/-30
F32T8/25W	1	120	21	0.18	.77	3.67	99	1.5	10	-22/-30
	1	277	21	0.08	.77	3.67	93	1.5	10	-22/-30
F25T8	1	120	21	0.18	.87	4.14	99	1.5	10	-22/-30
	1	277	21	0.08	.87	4.14	93	1.5	10	-22/-30
F17T8	1	120	15	0.13	.92	6.13	99	1.5	10	-22/-30
	1	277	15	0.07	.92	6.13	89	1.5	10	-22/-30
FE15T8	1	120	14	0.10	.77	5.5	99	1.5	10	-22/-30
	1	277	14	0.05	.77	5.5	87	1.5	10	-22/-30
F25T12	1	120	21	0.19	.80	3.81	99	1.5	10	0/-18
	1	277	21	0.09	.80	3.81	94	1.5	10	0/-18

Safety and Performance

UL Class P · UL Type 1 Outdoor · UL Type CC · UL Type HL · FCC – CLASS A Non-Consumer

NEMA Premium · Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series
Instant Start Multi-Voltage 120–277V High-Efficiency
T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

72259 – GE132MAXP-L/ULTRA

UltraMax® P-Series Instant Start
Multi-Voltage High-Efficiency
1 – F32T8 120 to 277 "L" .87 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

General Characteristics	
Ballast Type	Electronic – High-Efficiency Multivolt Instant Start
Starting Method	Instant Start
Lamp Wiring	
Line Voltage Regulation(+/-)	10%
Ambient Temperature (MAX)	55°C (131°F)
Case Temperature (MAX)	70°C (158°F)
Ballast Factor	Low
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Enclosure Type	Metal
Additional Info	Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P

Electrical Characteristics	
Supply Current Frequency	50 Hz/60 Hz

Dimensions	
Length (L)	9.5 in (241 mm)
Width (W)	1.3 in (33 mm)
Height (H)	1.0 in (25.4 mm)
Mounting Dimensions	
Mount Length (M)	8.9 in (226 mm)
Mount Width (X or F)	0.87 in (22 mm)
Mount Slots (MS)	0.3 in (8 mm)
Weight	0.6lbs
Exit Type	Side
Remote Mounting Distance to Lamp (F32T8)	18 ft
Remote Mounting Wire Gauge	18 AWG
Lead Lengths	
Black	25 in (635 mm)
White	25 in (635 mm)
Blue	31 in (787 mm)
Red	37 in (940 mm)

Specifications and lamp wattage

Lamp	# of Lamps	Line Volts (V)	System Watts (W)	Nom. Line Current (A)	System Ballast Factor	Ballast Efficacy Factor	Power Factor % (>=)	Crest Factor (<=)	THD% (<=)	Min Starting Temp (°F/°C)
F32T8	1	120	28	0.24	.88	3.14	99	1.5	10	-22/-30
	1	277	28	0.11	.88	3.14	98	1.5	10	-22/-30
F32T8/WM	1	120	27	0.23	.87	3.22	99	1.5	10	-22/-30
	1	277	27	0.10	.87	3.22	98	1.5	10	-22/-30
F28T8	1	120	25	0.22	.89	3.56	99	1.5	10	-22/-30
	1	277	25	0.10	.89	3.56	98	1.5	10	-22/-30
F32T8/25W	1	120	24	0.19	.88	3.67	99	1.5	10	-22/-30
	1	277	23	0.09	.88	3.83	94	1.5	10	-22/-30
F25T8	1	120	23	0.19	.94	4.09	99	1.5	10	-22/-30
	1	277	24	0.09	.94	3.92	94	1.5	10	-22/-30
F17T8	1	120	17	0.14	.98	5.76	99	1.5	10	-22/-30
	1	277	17	0.07	.98	5.76	90	1.5	10	-22/-30
FE15T8	1	120	14	0.12	.92	6.57	99	1.5	10	-22/-30
	1	277	14	0.06	.92	6.57	88	1.5	10	-22/-30
F25T12	1	120	25	0.21	.94	3.76	99	1.5	10	0/-18
	1	277	25	0.10	.94	3.76	94	1.5	10	0/-18

Safety and Performance

UL Class P · UL Type 1 Outdoor · UL Type CC · UL Type HL · FCC – CLASS A Non-Consumer

NEMA Premium · Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series
Instant Start Multi-Voltage 120–277V High-Efficiency
T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

73190 – GE132MAXP-H/ULTRA

UltraMax® P-Series Instant Start
Multi-Voltage High-Efficiency
2 or 1 – F32T8 120 to 277 "H" 1.18 BF UltraMax® P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

General Characteristics	
Ballast Type	Electronic – High-Efficiency Multivolt Instant Start
Starting Method	Instant Start
Lamp Wiring	Parallel
Line Voltage Regulation(+/-)	10%
Ambient Temperature (MAX)	55°C (131°F)
Case Temperature (MAX)	90°C (194°F)
Ballast Factor	High
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Enclosure Type	Metal
Additional Info	Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P

Electrical Characteristics	
Supply Current Frequency	50 Hz/60 Hz

Dimensions	
Length (L)	9.5 in (241 mm)
Width (W)	1.3 in (33 mm)
Height (H)	1.0 in (25.4 mm)
Mounting Dimensions	
Mount Length (M)	8.9 in (226 mm)
Mount Width (X or F)	0.87 in (22 mm)
Mount Slots (MS)	0.3 in (8 mm)
Weight	0.7lbs
Exit Type	Side
Remote Mounting Distance to Lamp (F32T8)	18 ft
Remote Mounting Wire Gauge	18 AWG
Lead Lengths	
Black	25 in (635 mm)
White	25 in (635 mm)
Blue	31 in (787 mm)
Red	37 in (940 mm)

Specifications and lamp wattage

Lamp	# of Lamps	Line Volts (V)	System Watts (W)	Nom. Line Current (A)	System Ballast Factor	Ballast Efficacy Factor	Power Factor % (>=)	Crest Factor (<=)	THD% (<=)	Min Starting Temp (°F/°C)
F32T8	2	120	74	0.62	1.19	1.61	99	1.5	10	-22/-30
	2	277	73	0.26	1.19	1.63	98	1.5	10	-22/-30
	1	120	47	0.40	1.38	2.94	99	1.5	10	-22/-30
	1	277	46	0.18	1.38	3.00	96	1.5	20	-22/-30
F32T8/WM	2	120	70	0.59	1.16	1.66	99	1.5	10	-22/-30
	2	277	69	0.26	1.16	1.68	98	1.5	10	-22/-30
	1	120	43	0.37	1.37	3.19	99	1.5	10	-22/-30
	1	277	43	0.17	1.37	3.19	95	1.5	15	-22/-30
F28T8	2	120	65	0.55	1.14	1.75	99	1.5	10	-22/-30
	2	277	64	0.24	1.14	1.78	97	1.5	10	-22/-30
	1	120	40	0.34	1.34	3.35	99	1.5	10	-22/-30
	1	277	41	0.16	1.34	3.27	94	1.5	20	-22/-30
F32T8/25W	2	120	60	0.51	1.16	1.93	99	1.5	10	-22/-30
	2	277	60	0.22	1.16	1.93	97	1.5	15	-22/-30
	1	120	38	0.32	1.37	3.60	99	1.5	15	-22/-30
	1	277	38	0.15	1.37	3.60	94	1.5	20	-22/-30
F25T8	2	120	62	0.52	1.17	1.87	99	1.5	10	-22/-30
	2	277	61	0.22	1.17	1.90	97	1.5	15	-22/-30
	1	120	38	0.32	1.37	3.61	99	1.5	15	-22/-30
	1	277	38	0.15	1.37	3.61	94	1.5	20	-22/-30
F17T8	2	120	41	0.36	1.02	2.85	99	1.5	10	-22/-30
	2	277	41	0.17	1.02	2.85	95	1.5	20	-22/-30
	1	120	26	0.23	1.21	5.27	99	1.5	15	-22/-30
	1	277	27	0.12	1.21	5.07	90	1.5	20	-22/-30
FE15T8	2	120	32	0.29	1.02	3.19	99	1.5	15	-22/-30
	2	277	33	0.14	1.02	3.09	93	1.5	20	-22/-30
	1	120	23	0.19	1.21	5.26	98	1.5	15	-22/-30
	1	277	22	0.10	1.21	5.50	87	1.5	20	-22/-30
F40T8	1	120	56	0.46	.66	1.18	99	1.5	10	-22/-30
	1	277	55	0.21	.66	1.20	94	1.5	15	-22/-30
F25T12	2	120	64	0.54	1.11	1.73	99	1.5	10	0/-18
	2	277	63	0.24	1.11	1.76	97	1.5	10	0/-18
	1	120	40	0.35	1.36	3.40	99	1.5	10	0/-18
	1	277	40	0.16	1.36	3.40	94	1.5	15	0/-18

Safety and Performance

UL Class P · UL Type 1 Outdoor · UL Type CC · UL Type HL · FCC – CLASS A Non-Consumer

NEMA Premium · Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series
Instant Start Multi-Voltage 120–277V High-Efficiency
T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

72266 – GE232MAXP-N/ULTRA

UltraMax® P-Series Instant Start
Multi-Voltage High-Efficiency

2 or 1 – F32T8 120 to 277 "N" .87 BF UltraMax® P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

General Characteristics	
Ballast Type	Electronic – High-Efficiency Multivolt Instant Start
Starting Method	Instant Start
Lamp Wiring	Parrallel
Line Voltage Regulation(+/-)	10%
Ambient Temperature (MAX)	55°C (131°F)
Case Temperature (MAX)	70°C (158°F)
Ballast Factor	Normal
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Enclosure Type	Metal
Additional Info	Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P

Electrical Characteristics	
Supply Current Frequency	50 Hz/60 Hz

Dimensions	
Length (L)	9.5 in (241 mm)
Width (W)	1.3 in (33 mm)
Height (H)	1.0 in (25.4 mm)
Mounting Dimensions	
Mount Length (M)	8.9 in (226 mm)
Mount Width (X or F)	0.87 in (22 mm)
Mount Slots (MS)	0.3 in (8 mm)
Weight	0.7lbs
Exit Type	Side
Remote Mounting Distance to Lamp (F32T8)	18 ft
Remote Mounting Wire Gauge	18 AWG
Lead Lengths	
Black	25 in (635 mm)
White	25 in (635 mm)
Blue	31 in (787 mm)
Red	37 in (940 mm)

Specifications and lamp wattage

Lamp	# of Lamps	Line Volts (V)	System Watts (W)	Nom. Line Current (A)	System Ballast Factor	Ballast Efficacy Factor	Power Factor % (>=)	Crest Factor (<=)	THD% (<=)	Min Starting Temp (°F/°C)
F32T8	2	120	54	0.47	.88	1.63	99	1.5	10	-22/-30
	2	277	53	0.20	.88	1.66	98	1.5	10	-22/-30
	1	120	31	0.26	1.08	3.48	99	1.5	10	-22/-30
	1	277	31	0.12	1.08	3.48	96	1.5	10	-22/-30
F32T8/WM	2	120	52	0.44	.87	1.67	99	1.5	10	-22/-30
	2	277	51	0.19	.87	1.71	98	1.5	10	-22/-30
	1	120	29	0.25	1.07	3.69	99	1.5	10	-22/-30
	1	277	29	0.12	1.07	3.69	96	1.5	10	-22/-30
F28T8	2	120	48	0.40	.85	1.77	99	1.5	10	-22/-30
	2	277	47	0.17	.85	1.81	98	1.5	10	-22/-30
	1	120	27	0.24	1.05	3.89	99	1.5	10	-22/-30
	1	277	27	0.11	1.05	3.89	95	1.5	10	-22/-30
F32T8/25W	2	120	44	0.37	.87	1.98	99	1.5	10	-22/-30
	2	277	43	0.16	.87	2.02	98	1.5	10	-22/-30
	1	120	25	0.23	.87	3.48	99	1.5	10	-22/-30
	1	277	25	0.10	.87	3.48	94	1.5	10	-22/-30
F25T8	2	120	44	0.38	.87	1.98	99	1.5	10	-22/-30
	2	277	44	0.16	.87	1.98	98	1.5	10	-22/-30
	1	120	26	0.23	1.09	4.19	99	1.5	10	-22/-30
	1	277	26	0.11	1.09	4.19	94	1.5	10	-22/-30
F17T8	2	120	31	0.27	.88	2.84	99	1.5	10	-22/-30
	2	277	31	0.12	.88	2.84	96	1.5	10	-22/-30
	1	120	19	0.17	1.09	5.74	99	1.5	10	-22/-30
	1	277	19	0.08	1.09	5.74	90	1.5	20	-22/-30
FE15T8	2	120	25	0.21	.91	3.64	99	1.5	10	-22/-30
	2	277	25	0.10	.91	3.64	93	1.5	15	-22/-30
	1	120	16	0.14	.91	5.69	98	1.5	10	-22/-30
	1	277	16	0.07	.91	5.69	88	1.5	15	-22/-30
F25T12	2	120	46	0.39	.93	2.02	99	1.5	10	0/-18
	2	277	46	0.17	.93	2.02	98	1.5	10	0/-18
	1	120	27	0.24	.93	3.44	99	1.5	10	0/-18
	1	277	27	0.11	.93	3.44	95	1.5	10	0/-18

Safety and Performance

UL Class P · UL Type 1 Outdoor · UL Type CC · UL Type HL · FCC – CLASS A Non-Consumer

NEMA Premium

Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series
Instant Start Multi-Voltage 120–277V High-Efficiency
T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

78619 – GE232MAXP-H/ULTRA

UltraMax® P-Series Instant Start
Multi-Voltage High-Efficiency
3 or 2 – F32T8 120 to 277 "H" 1.18 BF UltraMax® P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

General Characteristics	
Ballast Type	Electronic – High-Efficiency Multivolt Instant Start
Starting Method	Instant Start
Lamp Wiring	Parrallel
Line Voltage Regulation(+/-)	10%
Ambient Temperature (MAX)	55°C (131°F)
Case Temperature (MAX)	90°C (194°F)
Ballast Factor	High
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Enclosure Type	Metal
Additional Info	Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P

Electrical Characteristics	
Supply Current Frequency	50 Hz/60 Hz

Dimensions	
Length (L)	9.5 in (241 mm)
Width (W)	1.3 in (33 mm)
Height (H)	1.0 in (25.4 mm)
Mounting Dimensions	
Mount Length (M)	8.9 in (226 mm)
Mount Width (X or F)	0.87 in (22 mm)
Mount Slots (MS)	0.3 in (8 mm)
Weight	0.9lbs
Exit Type	Side
Remote Mounting Distance to Lamp (F32T8)	18 ft
Remote Mounting Wire Gauge	18 AWG
Lead Lengths	
Black	25 in (635 mm)
White	25 in (635 mm)
Blue	31 in (787 mm)
Red	37 in (940 mm)

Specifications and lamp wattage

Lamp	# of Lamps	Line Volts (V)	System Watts (W)	Nom. Line Current (A)	System Ballast Factor	Ballast Efficacy Factor	Power Factor % (>=)	Crest Factor (<=)	THD% (<=)	Min Starting Temp (°F/°C)
F32T8	3	120	110	0.93	1.18	1.10	99	1.5	10	-22/-30
	3	277	108	0.40	1.18	1.12	98	1.5	10	-22/-30
	2	120	85	0.74	1.30	1.53	99	1.5	10	-22/-30
	2	277	84	0.32	1.30	1.55	98	1.5	10	-22/-30
F32T8/WM	3	120	103	0.86	1.13	1.07	99	1.5	10	-22/-30
	3	277	101	0.36	1.13	1.09	98	1.5	10	-22/-30
	2	120	79	0.68	1.26	1.59	99	1.5	10	-22/-30
	2	277	78	0.30	1.26	1.62	98	1.5	10	-22/-30
F28T8	3	120	95	0.82	1.14	1.20	99	1.5	10	-22/-30
	3	277	94	0.35	1.14	1.21	98	1.5	10	-22/-30
	2	120	73	0.63	1.28	1.75	99	1.5	10	-22/-30
	2	277	72	0.27	1.28	1.78	97	1.5	10	-22/-30
F32T8/25W	3	120	91	0.79	1.18	1.30	99	1.5	10	-22/-30
	3	277	90	0.34	1.18	1.31	98	1.5	10	-22/-30
	2	120	70	0.59	1.26	1.80	99	1.5	10	-22/-30
	2	277	68	0.26	1.26	1.85	97	1.5	10	-22/-30
F25T8	3	120	90	0.79	1.17	1.30	99	1.5	10	-22/-30
	3	277	90	0.34	1.17	1.30	98	1.5	10	-22/-30
	2	120	70	0.59	1.32	1.89	99	1.5	10	-22/-30
	2	277	68	0.26	1.32	1.94	97	1.5	10	-22/-30
F17T8	3	120	61	0.53	1.18	1.93	99	1.5	10	-22/-30
	3	277	60	0.23	1.18	1.97	97	1.5	10	-22/-30
	2	120	47	0.41	1.32	2.81	99	1.5	10	-22/-30
	2	277	47	0.19	1.32	2.81	95	1.5	15	-22/-30
FE15T8	3	120	50	0.42	1.03	2.06	99	1.5	10	-22/-30
	3	277	50	0.20	1.03	2.06	97	1.5	10	-22/-30
	2	120	39	0.33	1.13	2.90	99	1.5	10	-22/-30
	2	277	39	0.16	1.13	2.90	95	1.5	15	-22/-30
F40T8	2	120	102	0.85	1.24	1.22	99	1.5	10	-22/-30
	2	277	101	0.37	1.24	1.23	97	1.5	10	-22/-30
F25T12	3	120	94	0.81	1.10	1.17	99	1.5	10	0/-18
	3	277	92	0.35	1.10	1.20	98	1.5	10	0/-18
	2	120	73	0.63	1.23	1.68	99	1.5	10	0/-18
	2	277	73	0.27	1.23	1.68	97	1.5	10	0/-18

Safety and Performance

UL Class P · UL Type 1 Outdoor · UL Type CC · UL Type HL · FCC – CLASS A Non-Consumer

NEMA Premium · Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series
Instant Start Multi-Voltage 120–277V High-Efficiency
T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

72262 – GE232MAXP-L/ULTRA

UltraMax® P-Series Instant Start
Multi-Voltage High-Efficiency
2 or 1 – F32T8 120 to 277 "L" .77 BF UltraMax® P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

General Characteristics	
Ballast Type	Electronic – High-Efficiency Multivolt Instant Start
Starting Method	Instant Start
Lamp Wiring	Parrallel
Line Voltage Regulation(+/-)	10%
Ambient Temperature (MAX)	55°C (131°F)
Case Temperature (MAX)	70°C (158°F)
Ballast Factor	Low
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Enclosure Type	Metal
Additional Info	Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P

Electrical Characteristics	
Supply Current Frequency	50 Hz/60 Hz

Dimensions	
Length (L)	9.5 in (241 mm)
Width (W)	1.3 in (33 mm)
Height (H)	1.0 in (25.4 mm)
Mounting Dimensions	
Mount Length (M)	8.9 in (226 mm)
Mount Width (X or F)	0.87 in (22 mm)
Mount Slots (MS)	0.3 in (8 mm)
Weight	0.7lbs
Exit Type	Side
Remote Mounting Distance to Lamp (F32T8)	18 ft
Remote Mounting Wire Gauge	18 AWG
Lead Lengths	
Black	25 in (635 mm)
White	25 in (635 mm)
Blue	31 in (787 mm)
Red	37 in (940 mm)

Specifications and lamp wattage

Lamp	# of Lamps	Line Volts (V)	System Watts (W)	Nom. Line Current (A)	System Ballast Factor	Ballast Efficacy Factor	Power Factor % (>=)	Crest Factor (<=)	THD% (<=)	Min Starting Temp (°F/°C)
F32T8	2	120	48	0.42	.78	1.63	99	1.5	10	-22/-30
	2	277	48	0.19	.78	1.63	98	1.5	10	-22/-30
	1	120	30	0.24	.96	3.20	99	1.5	10	-22/-30
	1	277	30	0.11	.96	3.20	95	1.5	10	-22/-30
F32T8/WM	2	120	46	0.39	.77	1.67	99	1.5	10	-22/-30
	2	277	46	0.17	.77	1.67	98	1.5	10	-22/-30
	1	120	28	0.22	.77	2.75	99	1.5	10	-22/-30
	1	277	28	0.11	.77	2.75	94	1.5	10	-22/-30
F28T8	2	120	43	0.36	.77	1.79	99	1.5	10	-22/-30
	2	277	42	0.16	.77	1.83	97	1.5	10	-22/-30
	1	120	26	0.21	.77	2.96	99	1.5	10	-22/-30
	1	277	26	0.10	.77	2.96	94	1.5	10	-22/-30
F32T8/25W	2	120	39	0.33	.78	2.00	99	1.5	10	-22/-30
	2	277	39	0.15	.78	2.00	96	1.5	10	-22/-30
	1	120	22	0.18	.78	3.55	98	1.5	10	-22/-30
	1	277	22	0.09	.78	3.55	93	1.5	10	-22/-30
F25T8	2	120	40	0.34	.78	1.95	99	1.5	10	-22/-30
	2	277	40	0.15	.78	1.95	96	1.5	10	-22/-30
	1	120	23	0.21	.96	4.17	99	1.5	10	-22/-30
	1	277	24	0.10	.96	4.00	93	1.5	15	-22/-30
F17T8	2	120	28	0.24	.79	2.82	99	1.5	10	-22/-30
	2	277	29	0.11	.79	2.72	94	1.5	10	-22/-30
	1	120	17	0.18	.98	5.76	99	1.5	10	-22/-30
	1	277	18	0.08	.98	5.44	90	1.5	10	-22/-30
FE15T8	2	120	23	0.20	.78	3.39	99	1.5	10	-22/-30
	2	277	23	0.10	.78	3.39	91	1.5	15	-22/-30
	1	120	14	0.13	.78	5.57	99	1.5	10	-22/-30
	1	277	15	0.07	.78	5.20	87	1.5	10	-22/-30
F25T12	2	120	42	0.35	.80	1.90	99	1.5	10	0/-18
	2	277	41	0.15	.80	1.95	97	1.5	10	0/-18
	1	120	24	0.21	.80	3.33	99	1.5	10	0/-18
	1	277	24	0.10	.80	3.33	95	1.5	10	0/-18

Safety and Performance

UL Class P · UL Type 1 Outdoor · UL Type CC · UL Type HL · FCC – CLASS A Non-Consumer

NEMA Premium · Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series
Instant Start Multi-Voltage 120–277V High-Efficiency
T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

71723 – GE432MAXP-H/ULTRA

UltraMax® P-Series Instant Start
Multi-Voltage High-Efficiency
4 or 3 – F32T8 120 to 277 "H" 1.18 BF UltraMax® P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

General Characteristics	
Ballast Type	Electronic – High-Efficiency Multivolt Instant Start
Starting Method	Instant Start
Lamp Wiring	Parrallel
Line Voltage Regulation(+/-)	10%
Ambient Temperature (MAX)	55°C (131°F)
Case Temperature (MAX)	90°C (194°F)
Ballast Factor	High
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Enclosure Type	Metal
Additional Info	Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P

Electrical Characteristics	
Supply Current Frequency	50 Hz/60 Hz

Dimensions	
Length (L)	9.5 in (241 mm)
Width (W)	1.7 in (43 mm)
Height (H)	1.18 in (30 mm)
Mounting Dimensions	
Mount Length (M)	8.9 in (226 mm)
Mount Width (X or F)	1.05 in (27 mm)
Mount Slots (MS)	0.3 in (8 mm)
Weight	1.4lbs
Exit Type	Side
Remote Mounting Distance to Lamp (F32T8)	18 ft
Remote Mounting Wire Gauge	18 AWG
Lead Lengths	
Black	25 in (635 mm)
White	25 in (635 mm)
Blue	31 in (787 mm)
Red	39 in (991 mm)

Specifications and lamp wattage

Lamp	# of Lamps	Line Volts (V)	System Watts (W)	Nom. Line Current (A)	System Ballast Factor	Ballast Efficacy Factor	Power Factor % (>=)	Crest Factor (<=)	THD% (<=)	Min Starting Temp (°F/°C)
F32T8	4	120	148	1.30	1.18	.80	99	1.4	10	-22/-30
	4	277	146	0.55	1.18	.81	98	1.4	10	-22/-30
	3	120	119	1.07	1.28	1.08	99	1.4	10	-22/-30
	3	277	117	0.46	1.28	1.09	97	1.4	15	-22/-30
F32T8/WM	4	120	139	1.21	1.18	.85	99	1.4	10	50/10
	4	277	136	0.51	1.18	.87	97	1.4	10	50/10
	3	120	113	0.99	1.25	1.11	99	1.4	10	50/10
	3	277	112	0.41	1.25	1.12	97	1.4	16	50/10
F28T8	4	120	127	1.10	1.18	.93	99	1.4	10	50/10
	4	277	125	0.48	1.18	.94	98	1.4	10	50/10
	3	120	105	0.91	1.24	1.18	99	1.4	10	50/10
	3	277	102	0.40	1.24	1.22	97	1.4	16	50/10
F32T8/25W	4	120	120	1.06	1.18	.98	99	1.4	10	60/16
	4	277	116	0.45	1.18	1.02	98	1.4	10	60/16
	3	120	99	0.88	1.24	1.25	99	1.4	10	60/16
	3	277	95	0.38	1.24	1.31	97	1.4	10	60/16
F25T8	4	120	119	0.45	1.16	.97	97	1.4	10	-22/-30
	4	277	121	1.06	1.16	.96	99	1.4	10	-22/-30
	3	120	101	0.87	1.27	1.26	99	1.4	10	-22/-30
	3	277	100	0.38	1.27	1.27	96	1.4	17	-22/-30
F17T8	4	120	79	0.62	1.16	1.47	99	1.4	10	-22/-30
	4	277	78	0.31	1.16	1.49	96	1.4	10	-22/-30
	3	120	62	0.57	1.25	2.02	99	1.4	10	-22/-30
	3	277	62	0.27	1.25	2.02	95	1.4	21	-22/-30
FE15T8	4	120	62	0.54	1.03	1.66	99	1.4	10	0/-18
	4	277	62	0.26	1.03	1.66	95	1.4	20	0/-18
	3	120	51	0.45	1.12	2.20	99	1.4	10	0/-18
	3	277	52	0.22	1.12	2.15	92	1.4	20	0/-18
F40T8	3	120	146	1.27	1.22	.84	99	1.4	10	-22/-30
	3	277	142	0.54	1.22	.86	97	1.4	14	-22/-30
F25T12	4	120	125	1.10	1.11	.89	99	1.4	10	0/-18
	4	277	122	0.47	1.11	.91	97	1.4	14	0/-18
	3	120	101	0.90	1.22	1.21	99	1.4	10	0/-18
	3	277	100	0.39	1.22	1.22	97	1.4	17	0/-18

Safety and Performance

UL Class P · UL Type 1 Outdoor · UL Type CC · UL Type HL · FCC – CLASS A Non-Consumer

NEMA Premium · Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series
Instant Start Multi-Voltage 120–277V High-Efficiency
T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

78625 – GE432MAXP-L/ULTRA

UltraMax® P-Series Instant Start
Multi-Voltage High-Efficiency
4 or 3 – F32T8 120 to 277 "L" .77 BF UltraMax® P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

General Characteristics	
Ballast Type	Electronic – High-Efficiency Multivolt Instant Start
Starting Method	Instant Start
Lamp Wiring	Parrallel
Line Voltage Regulation(+/-)	10%
Ambient Temperature (MAX)	55°C (131°F)
Case Temperature (MAX)	70°C (158°F)
Ballast Factor	Low
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Enclosure Type	Metal
Additional Info	Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P

Electrical Characteristics	
Supply Current Frequency	50 Hz/60 Hz

Dimensions	
Length (L)	9.5 in (241 mm)
Width (W)	1.3 in (33 mm)
Height (H)	1.0 in (25.4 mm)
Mounting Dimensions	
Mount Length (M)	8.9 in (226 mm)
Mount Width (X or F)	0.87 in (22 mm)
Mount Slots (MS)	0.3 in (8 mm)
Weight	0.9lbs
Exit Type	Side
Remote Mounting Distance to Lamp (F32T8)	18 ft
Remote Mounting Wire Gauge	18 AWG
Lead Lengths	
Black	25 in (635 mm)
White	25 in (635 mm)
Red & Blue	31 in (787 mm)
Yellow	39 in (991 mm)

Specifications and lamp wattage

Lamp	# of Lamps	Line Volts (V)	System Watts (W)	Nom. Line Current (A)	System Ballast Factor	Ballast Efficacy Factor	Power Factor % (>=)	Crest Factor (<=)	THD% (<=)	Min Starting Temp (°F/°C)
F32T8	4	120	98	0.82	.78	.80	99	1.5	10	-22/-30
	4	277	96	0.35	.78	.81	98	1.5	10	-22/-30
	3	120	84	0.72	.88	1.05	99	1.5	10	-22/-30
	3	277	83	0.31	.88	1.06	98	1.5	10	-22/-30
F32T8/WM	4	120	92	0.79	.76	.83	99	1.5	10	-22/-30
	4	277	91	0.34	.76	.84	98	1.5	10	-22/-30
	3	120	77	0.66	.83	1.08	99	1.5	10	-22/-30
	3	277	76	0.28	.83	1.09	97	1.5	10	-22/-30
F28T8	4	120	85	0.72	.75	.88	99	1.5	10	-22/-30
	4	277	84	0.31	.75	.89	98	1.5	10	-22/-30
	3	120	68	0.59	.81	1.19	99	1.5	10	-22/-30
	3	277	67	0.26	.81	1.21	97	1.5	10	-22/-30
F32T8/25W	4	120	78	0.66	.77	.99	99	1.5	10	-22/-30
	4	277	77	0.29	.77	1.00	98	1.5	10	-22/-30
	3	120	62	0.52	.81	1.31	99	1.5	10	-22/-30
	3	277	61	0.22	.81	1.33	97	1.5	10	-22/-30
F25T8	4	120	80	0.67	.76	.95	99	1.5	10	-22/-30
	4	277	79	0.29	.76	.96	98	1.5	10	-22/-30
	3	120	66	0.55	.84	1.27	99	1.5	10	-22/-30
	3	277	65	0.25	.84	1.29	97	1.5	15	-22/-30
F17T8	4	120	56	0.47	.79	1.41	99	1.5	10	-22/-30
	4	277	56	0.21	.79	1.41	96	1.5	10	-22/-30
	3	120	47	0.40	.86	1.83	99	1.5	10	-22/-30
	3	277	47	0.18	.86	1.83	95	1.5	15	-22/-30
FE15T8	4	120	44	0.38	.76	1.73	99	1.5	10	-22/-30
	4	277	44	0.18	.76	1.73	95	1.5	10	-22/-30
	3	120	36	0.32	.76	2.11	99	1.5	10	-22/-30
	3	277	37	0.15	.76	2.05	93	1.5	15	-22/-30
F25T12	4	120	81	0.69	.76	.94	99	1.5	10	0/-18
	4	277	81	0.30	.76	.94	98	1.5	10	0/-18
	3	120	68	0.58	.76	1.12	99	1.5	10	0/-18
	3	277	67	0.25	.76	1.13	97	1.5	10	0/-18

Safety and Performance

UL Class P · UL Type 1 Outdoor · UL Type CC · UL Type HL · FCC – CLASS A Non-Consumer

NEMA Premium · Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series
Instant Start Multi-Voltage 120–277V High-Efficiency
T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

78627 – GE432MAXP-N/ULTRA

UltraMax® P-Series Instant Start
Multi-Voltage High-Efficiency

4 or 3 – F32T8 120 to 277 "L" .87 BF UltraMax® P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

General Characteristics	
Ballast Type	Electronic – High-Efficiency Multivolt Instant Start
Starting Method	Instant Start
Lamp Wiring	Parrallel
Line Voltage Regulation(+/-)	10%
Ambient Temperature (MAX)	55°C (131°F)
Case Temperature (MAX)	70°C (158°F)
Ballast Factor	Normal
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Enclosure Type	Metal
Additional Info	Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P

Electrical Characteristics	
Supply Current Frequency	50 Hz/60 Hz

Dimensions	
Length (L)	9.5 in (241 mm)
Width (W)	1.3 in (33 mm)
Height (H)	1.0 in (25.4 mm)
Mounting Dimensions	
Mount Length (M)	8.9 in (226 mm)
Mount Width (X or F)	0.87 in (22 mm)
Mount Slots (MS)	0.3 in (8 mm)
Weight	0.9lbs
Exit Type	Side
Remote Mounting Distance to Lamp (F32T8)	18 ft
Remote Mounting Wire Gauge	18 AWG
Lead Lengths	
Black	25 in (635 mm)
White	25 in (635 mm)
Red & Blue	31 in (787 mm)
Yellow	39 in (991 mm)

Specifications and lamp wattage

Lamp	# of Lamps	Line Volts (V)	System Watts (W)	Nom. Line Current (A)	System Ballast Factor	Ballast Efficacy Factor	Power Factor % (>=)	Crest Factor (<=)	THD% (<=)	Min Starting Temp (°F/°C)
F32T8	4	120	110	0.93	.88	.80	99	1.5	10	-22/-30
	4	277	108	0.4	.88	.81	98	1.5	10	-22/-30
	3	120	92	0.78	.96	1.04	99	1.5	10	-22/-30
	3	277	91	0.34	.96	1.05	98	1.5	10	-22/-30
F32T8/WM	4	120	103	0.87	.88	.85	99	1.5	10	-22/-30
	4	277	101	0.37	.88	.87	98	1.5	10	-22/-30
	3	120	85	0.73	.97	1.14	99	1.5	10	-22/-30
	3	277	84	0.31	.97	1.15	98	1.5	10	-22/-30
F28T8	4	120	94	0.80	.84	.89	99	1.5	10	-22/-30
	4	277	92	0.34	.84	.91	98	1.5	10	-22/-30
	3	120	77	0.66	.93	1.21	99	1.5	10	-22/-30
	3	277	76	0.29	.93	1.22	98	1.5	10	-22/-30
F32T8/25W	4	120	87	0.73	.87	1.00	99	1.5	10	-22/-30
	4	277	87	0.32	.87	1.00	98	1.5	10	-22/-30
	3	120	72	0.60	.89	1.24	99	1.5	10	-22/-30
	3	277	71	0.26	.89	1.25	97	1.5	10	-22/-30
F25T8	4	120	89	0.74	.86	.97	99	1.5	10	-22/-30
	4	277	88	0.32	.86	.98	98	1.5	10	-22/-30
	3	120	74	0.62	.97	1.31	99	1.5	10	-22/-30
	3	277	73	0.27	.97	1.33	97	1.5	10	-22/-30
F17T8	4	120	61	0.53	.89	1.46	99	1.5	10	-22/-30
	4	277	61	0.23	.89	1.46	97	1.5	10	-22/-30
	3	120	51	0.44	.99	1.94	99	1.5	10	-22/-30
	3	277	51	0.20	.99	1.94	96	1.5	10	-22/-30
FE15T8	4	120	48	0.42	.77	1.60	99	1.5	10	-22/-30
	4	277	48	0.19	.77	1.60	96	1.5	10	-22/-30
	3	120	41	0.35	.85	2.07	99	1.5	10	-22/-30
	3	277	40	0.17	.85	2.13	94	1.5	10	-22/-30
F25T12	4	120	91	0.78	.79	.87	99	1.5	10	0/-18
	4	277	90	0.33	.79	.88	98	1.5	10	0/-18
	3	120	76	0.65	.87	1.14	99	1.5	10	0/-18
	3	277	75	0.28	.87	1.16	98	1.5	10	0/-18

Safety and Performance

UL Class P · UL Type 1 Outdoor · UL Type CC · UL Type HL · FCC – CLASS A Non-Consumer

NEMA Premium · Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series
Instant Start Multi-Voltage 120–277V High-Efficiency
T8 Instant Start Ballasts For 46-59W 4ft-8ft Slimline Lamps

49767 – GE259MAXP-N/ULTRA

UltraMax® P-Series Instant Start
Multi-Voltage High-Efficiency
2 or 1 – F96T8 120 to 277 "N" .87 BF UltraMax® P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- Anti-striation control for better light quality
- Cold temperature 0°F Minimum Starting Temperature

General Characteristics	
Ballast Type	Electronic – High-Efficiency Multivolt Instant Start
Starting Method	Instant Start
Lamp Wiring	Parrallel
Line Voltage Regulation(+/-)	10%
Ambient Temperature (MAX)	40°C (104°F)
Case Temperature (MAX)	70°C (158°F)
Ballast Factor	Normal
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Enclosure Type	Metal
Additional Info	Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P

Electrical Characteristics	
Supply Current Frequency	50 Hz/60 Hz

Dimensions	
Length (L)	9.5 in (241 mm)
Width (W)	1.3 in (33 mm)
Height (H)	1.18 in (30 mm)
Mounting Dimensions	
Mount Length (M)	8.9 in (226 mm)
Mount Width (X or F)	0.87 in (22 mm)
Mount Slots (MS)	0.3 in (8 mm)
Weight	1.4lbs
Exit Type	Side
Remote Mounting Distance to Lamp (F32T8)	18 ft
Remote Mounting Wire Gauge	18 AWG
Lead Lengths	
Black	22 in (559 mm)
White	22 in (559 mm)
Blue	46 in (1168 mm)
Red	78 in (1981 mm)

Specifications and lamp wattage

Lamp	# of Lamps	Line Volts (V)	System Watts (W)	Nom. Line Current (A)	System Ballast Factor	Ballast Efficacy Factor	Power Factor % (>=)	Crest Factor (<=)	THD% (<=)	Min Starting Temp (°F/°C)
F96T8	2	120	107	0.91	.87	.81	99	1.7	10	0/-18
	2	277	105	0.4	.87	.83	98	1.7	15	0/-18
	1	120	62	0.53	.87	1.40	99	1.7	10	0/-18
	1	277	62	0.24	.87	1.40	97	1.7	20	0/-18
F96T8/WM	2	120	102	0.87	.87	.85	99	1.7	10	50/10
	2	277	100	0.38	.87	.87	98	1.7	15	50/10
	1	120	59	0.5	.87	1.47	99	1.7	10	50/10
	1	277	59	0.23	.87	1.47	97	1.7	20	50/10
F96T8/WMP	2	120	85	0.78	.89	1.05	99	1.7	10	50/10
	2	277	84	0.32	.89	1.06	98	1.7	15	50/10
	1	120	59	0.5	.87	1.47	99	1.7	10	50/10
	1	277	59	0.23	.87	1.47	97	1.7	20	50/10
F72T8	2	120	79	0.72	.89	1.13	99	1.7	10	0/-18
	2	277	78	0.29	.89	1.14	98	1.7	13	0/-18
	1	120	44	0.39	.87	1.98	99	1.7	10	0/-18
	1	277	44	0.17	.87	1.98	96	1.7	20	0/-18

Safety and Performance

c UL us LISTED · UL Class P · UL Type 1 Outdoor · UL Type HL · FCC – CLASS A Non-Consumer

NEMA Premium · Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series
Multi-Voltage High Output 120–277V
T8 Instant Start Ballasts For 44-86W 4ft-8ft HO Lamps

63888 – GE286MAXP-HO-N

UltraMax® P-Series
Multivolt High Output 120V-277V
2 or 1 – F96T8HO IS 120 to 277 "N" .87 BF

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature

General Characteristics	
Ballast Type	Electronic – Multivolt Instant Start
Starting Method	Instant Start
Lamp Wiring	Parrallel
Line Voltage Regulation(+/-)	10%
Ambient Temperature (MAX)	40°C (104°F)
Case Temperature (MAX)	70°C (158°F)
Ballast Factor	Normal
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Enclosure Type	Metal
Additional Info	Auto-restart, Inherently Thermally Protected, UL Class P

Electrical Characteristics	
Supply Current Frequency	50 Hz/60 Hz

Dimensions	
Length (L)	9.5 in (241 mm)
Width (W)	1.7 in (43 mm)
Height (H)	1.18 in (30 mm)
Mounting Dimensions	
Mount Length (M)	8.9 in (226 mm)
Mount Width (X or F)	1.05 in (27 mm)
Mount Slots (MS)	0.3 in (8 mm)
Weight	1.40lbs
Exit Type	Side
Remote Mounting Distance to Lamp (F32T8)	18 ft
Remote Mounting Wire Gauge	18 AWG
Lead Lengths	
Black	22 in (559 mm)
White	22 in (559 mm)
Blue	46 in (1168 mm)
Red	78 in (1981 mm)

Specifications and lamp wattage

Lamp	# of Lamps	Line Volts (V)	System Watts (W)	Nom. Line Current (A)	System Ballast Factor	Ballast Efficacy Factor	Power Factor % (>=)	Crest Factor (<=)	THD% (<=)	Min Starting Temp (°F/°C)
F96T849W	2	120	111	0.95	1.37	1.23	99	1.7	10	-22/-30
	2	277	110	0.41	1.37	1.25	97	1.7	10	-22/-30
	1	120	70	0.58	1.63	2.33	99	1.7	10	-22/-30
	1	277	70	0.26	1.63	2.33	95	1.7	10	-22/-30
F96T8WMP	2	120	124	1.10	1.37	1.10	99	1.7	10	-22/-30
	2	277	122	0.46	1.37	1.12	98	1.7	10	-22/-30
	1	120	77	0.68	1.63	2.11	99	1.7	10	-22/-30
	1	277	77	0.30	1.63	2.11	96	1.7	10	-22/-30
F96T8WM	2	120	135	1.18	1.14	.85	99	1.7	10	-22/-30
	2	277	133	0.50	1.15	.86	98	1.7	10	-22/-30
	1	120	84	0.73	1.35	1.61	99	1.7	10	-22/-30
	1	277	84	0.32	1.35	1.61	96	1.7	10	-22/-30
F96T8HO	2	120	145	1.25	.78	.54	99	1.7	10	-22/-30
	2	277	142	0.54	.78	.55	98	1.7	10	-22/-30
	1	120	91	0.78	.91	1.01	99	1.7	10	-22/-30
	1	277	90	0.35	.92	1.02	97	1.7	10	-22/-30
F96T8	2	120	142	1.24	1.15	.81	99	1.7	10	-22/-30
	2	277	140	0.52	1.15	.82	98	1.7	10	-22/-30
	1	120	88	0.76	1.35	1.54	99	1.7	10	-22/-30
	1	277	87	0.34	1.36	1.56	97	1.7	10	-22/-30
F72T8HO	2	120	115	1.02	.82	.71	99	1.7	10	-22/-30
	2	277	114	0.43	.82	.72	97	1.7	16	-22/-30
	1	120	73	0.64	.95	1.30	99	1.7	10	-22/-30
	1	277	72	0.28	.95	1.31	95	1.7	22	-22/-30
F60T8HO	2	120	95	0.84	.81	.86	99	1.7	10	-22/-30
	2	277	92	0.35	.81	.88	97	1.7	18	-22/-30
	1	120	60	0.53	.95	1.58	99	1.7	11	-22/-30
	1	277	62	0.24	.95	1.53	94	1.7	23	-22/-30
F58T8	2	120	78	0.68	.79	1.01	99	1.7	10	-22/-30
	2	277	78	0.30	.79	1.01	96	1.7	10	-22/-30
	1	120	49	0.43	.93	1.91	99	1.7	10	-22/-30
	1	277	50	0.20	.93	1.87	93	1.7	10	-22/-30
F48T8HO	2	120	78	0.70	.82	1.05	99	1.7	10	-22/-30
	2	277	77	0.30	.82	1.06	96	1.7	21	-22/-30
	1	120	51	0.45	.95	1.87	99	1.7	13	-22/-30
	1	277	51	0.20	.95	1.87	93	1.7	26	-22/-30
F40T8	2	120	97	0.85	1.20	1.24	99	1.7	10	-22/-30
	2	277	96	0.37	1.20	1.25	97	1.7	10	-22/-30
	1	120	62	0.52	1.39	2.24	99	1.7	10	-22/-30
	1	277	62	0.24	1.37	2.21	95	1.7	10	-22/-30

Safety and Performance

c UL us LISTED · UL Class P · UL Type 1 Outdoor · UL Type HL · FCC – CLASS A Non-Consumer

Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series
Instant Start Multi-Voltage 120–277V High-Efficiency
T8 Instant Start Ballasts For 46-59W 4ft-8ft Slimline Lamps

74093 – GE232MAXP347-N

UltraMax® P-Series
347V High-Efficiency
2 or 1 – F32T8 347V "N" .87 BF UltraMax® P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Instant start ballast for long lamp starting cycles and low initial cost
- Anti-striation control for better light quality
- Cold temperature 0°F Minimum Starting Temperature
- Parallel lamp operation means system maintenance is easier to manage

General Characteristics	
Ballast Type	Electronic – High-Efficiency Instant Start
Starting Method	Instant Start
Lamp Wiring	Parrallel
Line Voltage Regulation(+/-)	10%
Ambient Temperature (MAX)	40°C (104°F)
Case Temperature (MAX)	70°C (158°F)
Ballast Factor	Normal
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Enclosure Type	Metal
Additional Info	Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P

Electrical Characteristics	
Supply Current Frequency	60 Hz

Dimensions	
Length (L)	9.5 in (241 mm)
Width (W)	1.3 in (33 mm)
Height (H)	1.18 in (30 mm)
Mounting Dimensions	
Mount Length (M)	8.9 in (226 mm)
Mount Width (X or F)	0.87 in (22 mm)
Mount Slots (MS)	0.3 in (8 mm)
Weight	1.04lbs
Exit Type	Side
Remote Mounting Distance to Lamp (F32T8)	18 ft
Remote Mounting Wire Gauge	18 AWG
Lead Lengths	
Black	25 in (635 mm)
White	25 in (635 mm)
Blue	31 in (787 mm)
Red	45 in (1143 mm)

Specifications and lamp wattage

Lamp	# of Lamps	Line Volts (V)	System Watts (W)	Nom. Line Current (A)	System Ballast Factor	Ballast Efficacy Factor	Power Factor % (>=)	Crest Factor (<=)	THD% (<=)	Min Starting Temp (°F/°C)
F32T8	2	347	53	0.15	0.87	1.65	99	1.7	10	-22/-30
	1	347	34	0.10	1.02	3.03	97	1.7	10	-22/-30
F32T8/WM	2	347	50	0.15	0.86	1.72	99	1.7	10	60/16
	1	347	32	0.09	1.02	3.20	97	1.7	10	60/16
F28T8	2	347	46	0.14	0.84	1.81	99	1.7	10	60/16
	1	347	30	0.09	1.01	3.38	97	1.7	10	60/16
F32T8/25W	2	347	42	0.12	0.84	2.00	99	1.7	10	60/16
F25T8	2	347	41	0.12	0.88	2.12	98	1.7	10	-22/-30
	1	347	26	0.08	1.03	3.89	90	1.7	25	-22/-30
F25T8/WM	2	347	35	0.11	0.88	2.51	98	1.7	10	60/16
F17TB	2	347	30	0.09	0.83	2.78	96	1.7	10	-22/-30
	1	347	20	0.07	0.98	5.00	80	1.7	50	-22/-30
F17T8/WM	2	347	25	0.08	0.83	3.32	97	1.7	10	60/16
FE15T8	2	347	24	0.08	0.76	3.19	88	1.7	32	-22/-30
	1	347	16	0.06	0.88	5.52	77	1.7	69	-22/-30
F25T12	2	347	44	0.13	0.89	2.03	98	1.7	10	-22/-30
	1	347	29	0.09	1.08	3.76	96	1.7	10	-22/-30

Safety and Performance

c UL us LISTED · UL Class P · UL Type 1 Outdoor · UL Type HL · ICES-005 for EMI and RFI FCC – CLASS A Non-Consumer
NEMA Premium · ANSI - C82.11 - Cons 2002, ANSI - C62.41 - 1991 · Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series
347V High-Efficiency
T8 Instant Start Ballasts

74096 – GE232MAXP347-L

UltraMax® P-Series
347V High-Efficiency
2 or 1 – F32T8 347V "L" .87 BF UltraMax® P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Instant start ballast for long lamp starting cycles and low initial cost
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature
- Parallel lamp operation means system maintenance is easier to manage

General Characteristics	
Ballast Type	Electronic – High-Efficiency Instant Start
Starting Method	Instant Start
Lamp Wiring	Parrallel
Line Voltage Regulation(+/-)	10%
Ambient Temperature (MAX)	40°C (104°F)
Case Temperature (MAX)	70°C (158°F)
Ballast Factor	Low
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Enclosure Type	Metal
Additional Info	Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P

Electrical Characteristics	
Supply Current Frequency	60 Hz

Dimensions	
Length (L)	9.5 in (241 mm)
Width (W)	1.3 in (33 mm)
Height (H)	1.18 in (30 mm)
Mounting Dimensions	
Mount Length (M)	8.9 in (226 mm)
Mount Width (X or F)	0.87 in (22 mm)
Mount Slots (MS)	0.3 in (8 mm)
Weight	1.04lbs
Exit Type	Side
Remote Mounting Distance to Lamp (F32T8)	18 ft
Remote Mounting Wire Gauge	18 AWG
Lead Lengths	
Black	25 in (635 mm)
White	25 in (635 mm)
Blue	31 in (787 mm)
Red	45 in (1143 mm)

Specifications and lamp wattage

Lamp	# of Lamps	Line Volts (V)	System Watts (W)	Nom. Line Current (A)	System Ballast Factor	Ballast Efficacy Factor	Power Factor % (>=)	Crest Factor (<=)	THD% (<=)	Min Starting Temp (°F/°C)
F32T8	2	347	48	0.14	0.77	1.60	99	1.7	10	-22/-30
	1	347	30	0.10	0.90	3.00	87	1.7	37	-22/-30
F32T8/WM	2	347	45	0.13	0.77	1.71	99	1.7	10	60/16
	1	347	29	0.10	0.89	3.07	86	1.7	40	60/16
F28T8	2	347	42	0.12	0.74	1.76	99	1.7	10	60/16
	1	347	27	0.09	0.87	3.22	83	1.7	41	60/16
F32T8/25W	2	347	37	0.12	0.74	2.00	98	1.7	10	60/16
F25T8	2	347	37	0.11	0.78	2.11	97	1.7	15	-22/-30
	1	347	24	0.09	0.91	3.79	77	1.7	50	-22/-30
F25T8/WM	2	347	31	0.10	0.78	2.52	97	1.7	15	60/16
F17TB	2	347	27	0.09	0.70	2.59	84	1.7	50	-22/-30
	1	347	18	0.08	0.86	4.78	68	1.7	53	-22/-30
F17T8/WM	2	347	23	0.08	0.74	3.22	84	1.7	50	60/16
FE15T8	2	347	22	0.08	0.67	3.05	79	1.7	54	-22/-30
	1	347	15	0.06	0.77	5.13	66	1.7	56	-22/-30
F25T12	2	347	39	0.11	0.77	1.97	98	1.7	10	-22/-30
	1	347	25	0.09	0.91	3.64	80	1.7	42	-22/-30

Safety and Performance

c UL us LISTED · UL Class P · UL Type 1 Outdoor · UL Type HL · ICES-005 for EMI and RFI FCC – CLASS A Non-Consumer

NEMA Premium · ANSI - C82.11 - Cons 2002, ANSI - C62.41 - 1991 · Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series
347V High-Efficiency
T8 Instant Start Ballasts

74109 – GE232MAXP347-H

UltraMax® P-Series
347V High-Efficiency
2 or 1 – F32T8 347V "H" 1.18 BF UltraMax® P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Instant start ballast for long lamp starting cycles and low initial cost
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature
- Parallel lamp operation means system maintenance is easier to manage

General Characteristics	
Ballast Type	Electronic – High-Efficiency Instant Start
Starting Method	Instant Start
Lamp Wiring	Parrallel
Line Voltage Regulation(+/-)	10%
Ambient Temperature (MAX)	40°C (104°F)
Case Temperature (MAX)	70°C (158°F)
Ballast Factor	High
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Enclosure Type	Metal
Additional Info	Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P

Electrical Characteristics	
Supply Current Frequency	60 Hz

Dimensions	
Length (L)	9.5 in (241 mm)
Width (W)	1.3 in (33 mm)
Height (H)	1.18 in (30 mm)
Mounting Dimensions	
Mount Length (M)	8.9 in (226 mm)
Mount Width (X or F)	0.87 in (22 mm)
Mount Slots (MS)	0.3 in (8 mm)
Weight	1.04lbs
Exit Type	Side
Remote Mounting Distance to Lamp (F32T8)	18 ft
Remote Mounting Wire Gauge	18 AWG
Lead Lengths	
Black	25 in (635 mm)
White	25 in (635 mm)
Blue	31 in (787 mm)
Red	45 in (1143 mm)

Specifications and lamp wattage

Lamp	# of Lamps	Line Volts (V)	System Watts (W)	Nom. Line Current (A)	System Ballast Factor	Ballast Efficacy Factor	Power Factor % (>=)	Crest Factor (<=)	THD% (<=)	Min Starting Temp (°F/°C)
F32T8	2	347	70	0.20	1.18	1.69	99	1.7	10	-22/-30
	1	347	44	0.13	1.32	3.00	99	1.7	10	-22/-30
F32T8/WM	2	347	67	0.19	1.15	1.72	99	1.7	10	60/16
	1	347	42	0.12	1.29	3.07	99	1.7	10	60/16
F28T8	2	347	63	0.12	1.30	2.06	99	1.7	17	60/16
	1	347	39	0.18	1.30	3.33	99	1.7	17	60/16
F32T8/25W	2	347	56	0.16	1.12	2.00	99	1.7	10	60/16
F25T8	2	347	55	0.16	1.16	2.11	99	1.7	10	-22/-30
	1	347	36	0.11	1.32	3.67	99	1.7	30	-22/-30
F25T8/WM	2	347	47	0.14	1.16	2.47	98	1.7	10	60/16
F17TB	2	347	37	0.11	1.10	2.97	97	1.7	12	-22/-30
	1	347	23	0.08	1.25	5.43	87	1.7	52	-22/-30
F17T8/WM	2	347	31	0.10	1.10	3.55	97	1.7	12	60/16
FE15T8	2	347	30	0.09	1.00	3.33	94	1.7	30	-22/-30
	1	347	19	0.07	1.15	6.05	82	1.7	55	-22/-30
F17T8/WM	2	347	53	0.16	1.24	2.34	99	1.7	10	-22/-30
FE15T8	2	347	61	0.18	1.23	2.02	99	1.7	10	-22/-30
	1	347	39	0.12	1.45	3.72	95	1.7	20	-22/-30

Safety and Performance

c UL us LISTED · UL Class P · UL Type 1 Outdoor · UL Type HL · ICES-005 for EMI and RFI FCC – CLASS A Non-Consumer
NEMA Premium · ANSI - C82.11 - Cons 2002, ANSI - C62.41 - 1991 · Product is compliant with material restriction requirements of RoHS

UltraMax® General Series T8
Multi-Voltage 120–277V
T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

72275 – GE232MAX-G-N (Replaces GE-232-MV-N)

UltraMax® G-Series Instant Start
Multivolt 120V-277V

2 or 1 – F32T8 120 to 277 "N" .87 BF Multivolt UltraMax® G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature

General Characteristics	
Ballast Type	Electronic – Multivolt Instant Start
Starting Method	Instant Start
Lamp Wiring	Parrallel
Line Voltage Regulation(+/-)	10%
Ambient Temperature (MAX)	40°C (104°F)
Case Temperature (MAX)	70°C (158°F)
Ballast Factor	Normal
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Enclosure Type	Metal
Additional Info	Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P

Electrical Characteristics	
Supply Current Frequency	50 Hz/60 Hz

Dimensions	
Length (L)	9.5 in (241 mm)
Width (W)	1.3 in (33 mm)
Height (H)	1.18 in (30 mm)
Mounting Dimensions	
Mount Length (M)	8.9 in (226 mm)
Mount Width (X or F)	0.87 in (22 mm)
Mount Slots (MS)	0.3 in (8 mm)
Weight	1.06lbs
Exit Type	Side
Remote Mounting Distance to Lamp (F32T8)	18 ft
Remote Mounting Wire Gauge	18 AWG
Lead Lengths	
Black	25 in (635 mm)
White	25 in (635 mm)
Blue	31 in (787 mm)
Red	45 in (1143 mm)

Specifications and lamp wattage

Lamp	# of Lamps	Line Volts (V)	System Watts (W)	Nom. Line Current (A)	System Ballast Factor	Ballast Efficacy Factor	Power Factor % (>=)	Crest Factor (<=)	THD% (<=)	Min Starting Temp (°F/°C)
F32T8	2	120	57	0.48	.88	1.54	99	1.7	10	-22/-30
	2	277	55	0.2	.88	1.60	98	1.7	10	-22/-30
	1	120	35	0.3	1.08	3.09	99	1.7	10	-22/-30
	1	277	35	0.13	1.08	3.09	97	1.7	10	-22/-30
F32T8/WM	2	120	53	0.44	.86	1.62	99	1.7	10	60/16
	2	277	51	0.19	.87	1.71	97	1.7	10	60/16
	1	120	33	0.28	1.05	3.18	99	1.7	10	60/16
	1	277	33	0.12	1.05	3.18	96	1.7	10	60/16
F28T8	2	120	47	0.39	.83	1.77	99	1.7	10	60/16
	2	277	47	0.17	.83	1.77	97	1.7	10	60/16
	1	120	31	0.26	1.02	3.29	99	1.7	10	60/16
	1	277	31	0.11	.02	.06	95	1.7	10	60/16
F32T8/25W	2	120	43	0.36	.83	1.93	99	1.7	10	60/16
	2	277	43	0.16	.83	1.93	97	1.7	10	60/16
	1	120	28	0.24	1.02	3.64	99	1.7	10	60/16
	1	277	28	0.10	1.02	3.64	98	1.7	10	60/16
F25T8	2	120	44	0.37	.90	2.05	99	1.7	10	-22/-30
	2	277	44	0.16	.91	2.07	97	1.7	10	-22/-30
	1	120	28	0.23	1.08	3.86	99	1.7	10	-22/-30
	1	277	28	0.11	1.08	3.86	95	1.7	10	-22/-30
F17T8	2	120	31	0.26	.88	2.84	99	1.7	10	-22/-30
	2	277	31	0.12	.88	2.84	95	1.7	10	-22/-30
	1	120	20	0.17	1.05	5.25	99	1.7	10	-22/-30
	1	277	21	0.08	1.05	5.00	92	1.7	14	-22/-30
F40T8	1	120	44	0.37	1.08	2.45	99	1.7	10	0/-18
	1	277	43	0.16	1.08	2.51	96	1.7	10	0/-18

Safety and Performance

c UL us LISTED · UL Class P · UL Type 1 Outdoor · UL Type HL · FCC – CLASS A Non-Consumer

NEMA Premium · Product is compliant with material restriction requirements of RoHS

UltraMax® General Series T8
Multi-Voltage 120–277V
T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

74463 – GE232MAX-G-N (Replaces GE432MV-N)

UltraMax® G-Series T8
Multivolt 120V-277V
4 or 3 – F32T8 120 to 277 "N" .87 BF Multivolt UltraMax® G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature

General Characteristics	
Ballast Type	Electronic – Multivolt Instant Start
Starting Method	Instant Start
Lamp Wiring	Parrallel
Line Voltage Regulation(+/-)	10%
Ambient Temperature (MAX)	40°C (104°F)
Case Temperature (MAX)	70°C (158°F)
Ballast Factor	Normal
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Enclosure Type	Metal
Additional Info	Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P

Electrical Characteristics	
Supply Current Frequency	50 Hz/60 Hz

Dimensions	
Length (L)	9.5 in (241 mm)
Width (W)	1.3 in (33 mm)
Height (H)	1.18 in (30 mm)
Mounting Dimensions	
Mount Length (M)	8.9 in (226 mm)
Mount Width (X or F)	0.87 in (22 mm)
Mount Slots (MS)	0.3 in (8 mm)
Weight	1.40lbs
Exit Type	Side
Remote Mounting Distance to Lamp (F32T8)	18 ft
Remote Mounting Wire Gauge	18 AWG
Lead Lengths	
Black	25 in (635 mm)
White	25 in (635 mm)
Red & Blue	31 in (787 mm)
Yellow	47 in (1194 mm)

Specifications and lamp wattage

Lamp	# of Lamps	Line Volts (V)	System Watts (W)	Nom. Line Current (A)	System Ballast Factor	Ballast Efficacy Factor	Power Factor % (>=)	Crest Factor (<=)	THD% (<=)	Min Starting Temp (°F/°C)
F32T8	2	120	113	0.99	.88	.78	99	1.7	10	-22/-30
	2	277	110	0.43	.88	.80	98	1.7	10	-22/-30
	1	120	93	0.83	.93	1.00	99	1.7	10	-22/-30
	1	277	92	0.36	.93	1.01	98	1.7	10	-22/-30
F32T8/WM	2	120	103	0.90	.83	.81	99	1.7	10	60/16
	2	277	103	0.40	.83	.81	98	1.7	10	60/16
	1	120	87	0.77	.91	1.05	99	1.7	10	60/16
	1	277	86	0.33	.91	1.06	98	1.7	10	60/16
F28T8	2	120	93	0.83	.82	.88	99	1.7	10	60/16
	2	277	92	0.36	.82	.89	98	1.7	10	60/16
	1	120	77	0.68	.85	1.10	99	1.7	10	60/16
	1	277	77	0.30	.85	1.10	98	1.7	10	60/16
F32T8/25W	2	120	88	0.74	.80	.91	99	1.7	10	60/16
	2	277	87	0.32	.80	.92	98	1.7	15	60/16
	1	120	73	0.61	.85	1.16	99	1.7	10	60/16
	1	277	73	0.27	.85	1.16	97	1.7	16	60/16
F25T8	2	120	88	0.77	.87	.99	99	1.7	10	-22/-30
	2	277	86	0.34	.87	1.01	98	1.7	10	-22/-30
	1	120	73	0.64	.93	1.27	99	1.7	10	-22/-30
	1	277	72	0.28	.93	1.29	98	1.7	10	-22/-30
F17T8	2	120	60	0.53	.87	1.45	99	1.7	10	-22/-30
	2	277	60	0.23	.87	1.45	97	1.7	10	-22/-30
	1	120	51	0.45	.91	1.78	99	1.7	10	-22/-30
	1	277	51	0.20	.91	1.78	97	1.7	10	-22/-30
F40T8	1	120	112	0.99			99	1.7	10	0/-18
	1	277	110	0.43			98	1.7	10	0/-18

Safety and Performance

c UL us LISTED · UL Class P · UL Type 1 Outdoor · UL Type HL · FCC – CLASS A Non-Consumer

NEMA Premium · Product is compliant with material restriction requirements of RoHS

UltraMax® General Series
347V Instant Start High Performance
T8 Instant Start Ballasts

74103 – GE232MAX-G-347 (Replaces GE232-N-347)

UltraMax® G-Series
347V Instant Start High-Efficiency
2 or 1 – F32T8 347V "N" .87 BF UltraMax® G

- High-performance electronic ballast for all general fluorescent applications
- Instant start ballast for long lamp starting cycles and low initial cost
- Light-weight, Slim Profile Mini Can Housing
- Parallel lamp operation means system maintenance is easier to manage
- Cold temperature 0°F Minimum Starting Temperature

General Characteristics	
Ballast Type	Electronic – High-Efficiency Instant Start
Starting Method	Instant Start
Lamp Wiring	Parrallel
Line Voltage Regulation(+/-)	10%
Ambient Temperature (MAX)	40°C (104°F)
Case Temperature (MAX)	70°C (158°F)
Ballast Factor	Normal
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Enclosure Type	Metal
Additional Info	Auto-restart, Inherently Thermally Protected, UL Class P

Electrical Characteristics	
Supply Current Frequency	60 Hz

Dimensions	
Length (L)	9.5 in (241 mm)
Width (W)	1.3 in (33 mm)
Height (H)	1.18 in (30 mm)
Mounting Dimensions	
Mount Length (M)	8.9 in (226 mm)
Mount Width (X or F)	0.87 in (22 mm)
Mount Slots (MS)	0.3 in (8 mm)
Weight	1.15lbs
Exit Type	Side
Remote Mounting Distance to Lamp (F32T8)	18 ft
Remote Mounting Wire Gauge	18 AWG
Lead Lengths	
Black	25 in (635 mm)
White	25 in (635 mm)
Blue	31 in (787 mm)
Red	45 in (1143 mm)

Specifications and lamp wattage

Lamp	# of Lamps	Line Volts (V)	System Watts (W)	Nom. Line Current (A)	System Ballast Factor	Ballast Efficacy Factor	Power Factor % (>=)	Crest Factor (<=)	THD% (<=)	Min Starting Temp (°F/°C)
F32T8	2	347	55	0.16	0.87	1.58	99	1.7	10	0/-18
	1	347	34	0.11	1.03	3.03	97	1.7	10	0/-18
F32T8/WM	2	347	52	0.15	0.85	1.63	99	1.7	10	60/16
	1	347	32	0.09	1.01	3.16	97	1.7	10	60/16
F28T8	2	347	48	0.14	0.84	1.75	99	1.7	10	60/16
	1	347	30	0.09	1.00	3.33	96	1.7	10	60/16
F32T8/25W	2	347	44	0.13	0.84	1.91	99	1.7	10	60/16
F25T8	2	347	41	0.12	0.88	2.15	98	1.7	10	0/-18
	1	347	26	0.08	1.04	4.00	95	1.7	11	0/-18
F25T8/WM	2	347	35	0.11	0.88	2.51	98	1.7	10	60/16
F17T8	2	347	29	0.09	0.83	2.86	96	1.7	10	0/-18
	1	347	19	0.07	0.99	5.21	84	1.7	50	0/-18
F17T8/WM	2	347	24	0.08	0.83	3.46	96	1.7	10	60/16
FE15T8	2	347	24	0.08	0.76	3.17	90	1.7	30	0/-18
	1	347	16	0.06	0.89	5.56	78	1.7	66	0/-18
F25T12	2	347	44	0.13	0.88	2.00	98	1.7	10	0/-18
	1	347	28	0.08	1.07	3.82	96	1.7	10	0/-18

Safety and Performance

c UL us LISTED · UL Class P · UL Type 1 Outdoor · UL Type HL · ICES-005 for EMI and RFI · FCC – CLASS A Non-Consumer

ANSI - C82.11 - Cons 2002, ANSI - C62.41 - 1991 Product is compliant with material restriction requirements of RoHS

UltraMax® General Series
347V Instant Start High Performance
T8 Instant Start Ballasts

74107 – GE432MAX-G-347 (Replaces GE432-N-347)

UltraMax® G-Series
347V Instant Start High-Efficiency
4 or 3 – F32T8 347V "N" .87 BF UltraMax® G

- High-performance electronic ballast for all general fluorescent applications
- Instant start ballast for long lamp starting cycles and low initial cost
- Light-weight, Slim Profile Mini Can Housing
- Parallel lamp operation means system maintenance is easier to manage
- Cold temperature 0°F Minimum Starting Temperature

General Characteristics	
Ballast Type	Electronic – High-Efficiency Instant Start
Starting Method	Instant Start
Lamp Wiring	Parrallel
Line Voltage Regulation(+/-)	10%
Ambient Temperature (MAX)	40°C (104°F)
Case Temperature (MAX)	70°C (158°F)
Ballast Factor	Normal
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Enclosure Type	Metal
Additional Info	Auto-restart, Inherently Thermally Protected, UL Class P

Electrical Characteristics	
Supply Current Frequency	60 Hz

Dimensions	
Length (L)	9.5 in (241 mm)
Width (W)	1.3 in (33 mm)
Height (H)	1.18 in (30 mm)
Mounting Dimensions	
Mount Length (M)	8.9 in (226 mm)
Mount Width (X or F)	0.87 in (22 mm)
Mount Slots (MS)	0.3 in (8 mm)
Weight	1.15lbs
Exit Type	Side
Remote Mounting Distance to Lamp (F32T8)	18 ft
Remote Mounting Wire Gauge	18 AWG
Lead Lengths	
Black	25 in (635 mm)
White	25 in (635 mm)
Blue	31 in (787 mm)
Red	47 in (1194 mm)

Specifications and lamp wattage

Lamp	# of Lamps	Line Volts (V)	System Watts (W)	Nom. Line Current (A)	System Ballast Factor	Ballast Efficacy Factor	Power Factor % (>=)	Crest Factor (<=)	THD% (<=)	Min Starting Temp (°F/°C)
F32T8	4	347	109	0.30	0.88	.81	99	1.7	10	0/-18
	3	347	87	0.25	0.95	1.09	99	1.7	10	0/-18
F32T8/WM	4	347	103	0.29	0.86	.83	99	1.7	10	60/16
	3	347	83	0.24	0.94	1.13	99	1.7	10	60/16
F28T8	4	347	96	0.27	0.84	.88	99	1.7	10	60/16
	3	347	76	0.22	0.92	1.21	99	1.7	10	60/16
F32T8/25W	4	347	87	0.25	0.84	.97	99	1.7	10	60/16
F25T8	4	347	83	0.24	0.88	1.06	99	1.7	10	0/-18
	3	347	68	0.20	0.96	1.41	99	1.7	11	0/-18
F25T8/WM	4	347	71	0.20	0.88	1.24	99	1.7	10	60/16
F17T8	4	347	52	0.17	0.84	1.62	99	1.7	10	0/-18
	3	347	48	0.14	0.91	1.90	98	1.7	50	0/-18
F17T8/WM	4	347	44	0.13	0.84	1.91	99	1.7	10	60/16
FE15T8	4	347	47	0.14	0.76	1.62	98	1.7	30	0/-18
	3	347	38	0.12	0.82	2.16	91	1.7	66	0/-18
F25T12	4	347	87	0.25	0.89	1.02	99	1.7	10	0/-18
	3	347	72	0.21	0.97	1.35	99	1.7	10	0/-18

Safety and Performance

c UL us LISTED · UL Class P · UL Type 1 Outdoor · UL Type HL · ICES-005 for EMI and RFI · FCC – CLASS A Non-Consumer

ANSI - C82.11 - Cons 2002, ANSI - C62.41 - 1991 Product is compliant with material restriction requirements of RoHS

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

96714 – GE232-MVPS-N

UltraStart® T8
Programmed Start
2 or 1 – F32T8 120 to 277 Normal Light .88 BF <10% THD UltraStart®

- < 10% THD, > 99% power factor
- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Anti-striation circuitry reduces striations with energy saving lamps
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Multi-voltage technology handles voltage from 120 to 277V
- Light-weight, Slim Profile Mini Can Housing

General Characteristics	
Ballast Type	Electronic – Programmed/ Rapid Start
Starting Method	Programmed Start
Lamp Wiring	Parrallel
Line Voltage Regulation(+/-)	10%
Ambient Temperature (MAX)	104°C (40°F)
Case Temperature (MAX)	70°C (158°F)
Ballast Factor	Normal
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Additional Info	Anti-striation control, Inherently Thermally Protected, UL Class P, Universal voltage

Electrical Characteristics	
Supply Current Frequency	50 Hz/Supply Current Frequency (MIN)/ 50 Hz/ 60 (MIN)
Supply Current Frequency (MIN)	50 Hz/60 Hz

Dimensions	
Length (L)	9.5 in (241 mm)
Width (W)	1.3 in (33 mm)
Height (H)	1.18 in (30 mm)
Mounting Dimensions	
Mount Length (M)	8.9 in (226 mm)
Mount Width (X or F)	1.18 in (30 mm)
Mount Slots (MS)	0.3 in (8 mm)
Weight	1.65lbs
Exit Type	Side
Remote Mounting Distance to Lamp (F32T8)	18 ft
Remote Mounting Wire Gauge	18 AWG
Lead Lengths	**Lengths (± 1 in)**
Black	25 in (635 mm)
Blue & Red	33 in (838 mm)
White	25 in (635 mm)
Yellow	47 in (1194 mm)

Specifications and lamp wattage

Lamp	# of Lamps	Line Volts (V)	System Watts (W)	Nom. Line Current (A)	System Ballast Factor	Ballast Efficacy Factor	Power Factor % (>=)	Crest Factor (<=)	THD% (<=)	Min Starting Temp (°F/°C)
F96T8	2	120	59	0.48A	0.89	1.50	99	1.7	10	0/-18
	2	277	58	0.21A	0.89	1.53	96	1.7	10	0/-18
	1	120	37	0.30A	1.05	2.83	98	1.7	10	0/-18
	1	277	37	0.14A	1.05	2.83	93	1.7	10	0/-18
F96T8/WM	2	120	55	0.45A	0.88	1.60	99	1.7	10	50/10
	2	277	54	0.20A	0.88	1.62	96	1.7	10	50/10
	1	120	34	0.28A	1.02	3.00	98	1.7	10	50/10
	1	277	34	0.13A	1.02	3.00	93	1.7	10	50/10
F96T8/WMP	2	120	51	0.42A	0.86	1.68	99	1.7	10	50/10
	2	277	50	0.18A	0.86	1.72	95	1.7	10	50/10
	1	120	32	0.26A	1.00	3.12	98	1.7	10	50/10
	1	277	32	0.12A	1.00	3.12	92	1.7	10	50/10

Safety and Performance

UL Listed · UL Class P · ANSI – C62.41 · UL Type 1 Outdoor · UL Type HL · FCC – CLASS A Non-Consumer

Product is compliant with material restriction requirements of RoHS

UltraStart® Programmed Start T5 High-Efficiency

T5 Electronic Programmed Start For F14 (2 ft), F21 (3 ft), F28 (4 ft), F35 (5 ft) HE T5 Lamps*

68993 – GE228MVPS-MC (replaces 99655)

UltraStart® Programmed Start
T5 High-Efficiency
2 or 1 – F14-F28T5HE, 120 – 277 UltraStart® PRS Normal Light - .95 BF A Can

- High Efficiency T5 ballast with Continuous Cathode Cutout Technology
- Lower Maintenance Costs with Parallel Lamp Operation
- Fast Starting Time <700ms
- Multi-Voltage technology means a single ballast handles voltage from 108V to 305V
- Auto-Restart withstands temporary losses in power without the need to cycle power

General Characteristics	
Ballast Type	Electronic – Programmed / Rapid Start
Starting Method	Programmed Start
Lamp Wiring	Parallel
Line Voltage Regulation(+/-)	10%
Ambient Temperature (MAX)	131°F (55°C)
Case Temperature (MAX)	70°C (158°F)
Ballast Factor	Normal
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Additional Info	Auto-restart, End-of-Life Protection (EOL), Thermally protected, Universal voltage, Anti-striation control

Electrical Characteristics	
Supply Current Frequency	50 Hz/60 Hz

Dimensions	
Length (L)	9.5 in (241 mm)
Width (W)	1.3 in (33 mm)
Height (H)	1.0 in (25.4 mm)
Mounting Dimensions	
Mount Length (M)	8.9 in (226 mm)
Mount Slots (MS)	0.3 in (8 mm)
Weight	1.0lbs
Exit Type	Side
Remote Mounting Distance to Lamp	8 ft
Remote Mounting Wire Gauge	18 AWG
Lead Lengths	**Length (± 1 in)**
White & Black	20 in (508 mm)
Blue & Red	26 in (660 mm)
Yellow	37 in (940 mm)

Specifications and lamp wattage

Lamp	# of Lamps	Line Volts (V)	System Watts (W)	Nom. Line Current (A)	System Ballast Factor	Ballast Efficacy Factor	Power Factor % (>=)	Crest Factor (<=)	THD% (<=)	Min Starting Temp (°F/°C)
F28T5HE	2	277	60	0.22	.96	1.60	99	1.4	6	0/-18
	1	277	41	0.16	1.21	2.95	97	1.4	9	0/-18
	2	120	62	0.53	.96	1.55	99	1.4	7	0/-18
	1	120	41	0.35	1.21	2.95	99	1.4	8	0/-18
F28T5HL	2	277	60	0.23	.96	1.60	98	1.4	6	32/0
	1	277	41	0.15	1.21	2.95	97	1.4	10	32/0
	2	120	62	0.52	.96	1.55	99	1.4	7	32/0
	1	120	41	0.35	1.21	2.95	99	1.4	8	32/0
F28T5WM	2	277	58	0.22	.98	1.69	98	1.4	6	32/0
	2	120	59	0.50	.98	1.66	99	1.4	7	32/0
F21T5HE	2	277	50	0.18	1.04	2.08	98	1.4	7	32/0
	2	120	51	0.43	1.04	2.04	99	1.4	8	32/0
F14T5HE	2	277	37	0.14	1.10	2.97	97	1.4	10	32/0
	2	120	37	0.32	1.10	2.97	99	1.4	9	32/0
F14T5WM	2	277	36	0.13	1.10	3.06	97	1.4	11	32/0
	2	120	36	0.30	1.10	3.06	99	1.4	9	32/0

Safety and Performance

UL Type CC UL Type 1 Outdoor UL Listed UL Type HL FCC – CLASS A Non-Consumer UL Class P cUL Listed Meets ANSI Standard C62.41-1991
Product is compliant with material restriction requirements of RoHS Meets ANSI Standard C82.11- cons 2002 No PCB's

UltraStart® Programmed Start T5 High Output

T5 Electronic Programmed Start For T5 HO Lamps*

67562 – GE254MVPS90-A

UltraStart® Programmed Start
T5 High Output
2 or 1 – F54T5HO 120 to 277V UltraStart® PRS High Temp A Can

- High Efficiency T5 ballast with Continuous Cathode Cutout Technology
- Lower Maintenance Costs with Parallel Lamp Operation
- Fast Starting Time <700ms
- Multi-Voltage technology means a single ballast handles voltage from 108V to 305V
- Auto-Restart withstands temporary losses in power without the need to cycle power

General Characteristics	
Ballast Type	Electronic – Programmed / Rapid Start
Starting Method	Programmed Start
Lamp Wiring	Parallel
Line Voltage Regulation(+/-)	10%
Ambient Temperature (MAX)	131°F (55°C)
Case Temperature (MAX)	90°C (194°F)
Ballast Factor	Normal
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Additional Info	Auto-restart, End-of-Life Protection (EOL), Thermally protected, Universal voltage, Anti-striation control

Electrical Characteristics	
Supply Current Frequency	50 Hz/60 Hz

Dimensions	
Length (L)	9.5 in (241 mm)
Width (W)	1.7 in (43.2 mm)
Height (H)	1.2 in (30.5 mm)
Mounting Dimensions	
Mount Length (M)	8.9 in (226 mm)
Mount Slots (MS)	0.25 in (6 mm)
Weight	1.50lbs
Exit Type	Side
Remote Mounting Distance to Lamp	12 ft
Remote Mounting Wire Gauge	18 AWG
Lead Lengths	**Length (± 1 in)**
White & Black	25 in (635 mm)
Blue & Red	34 in (864 mm)
Yellow	45 in (1143 mm)

Specifications and lamp wattage

Lamp	# of Lamps	Line Volts (V)	System Watts (W)	Nom. Line Current (A)	System Ballast Factor	Ballast Efficacy Factor	Power Factor % (>=)	Crest Factor (<=)	THD% (<=)	Min Starting Temp (°F/°C)
F54T5HO	2	120	117	0.98	1.00	.85	1.00	1.4	4.4	-20/-29
	2	277	114	0.41	1.10	.96	99	1.4	5.4	-20/-29
	1	120	63	0.53	1.00	1.59	1.00	1.4	6.4	-20/-29
	1	277	62	0.23	1.10	1.77	97	1.4	6.6	-20/-29
F54T5WM	2	120	109	0.90	1.00	.92	1.00	1.4	4.6	0/-18
	2	277	107	0.40	1.12	1.05	99	1.4	5.2	0/-18
	1	120	61	0.51	1.00	1.64	1.00	1.4	6.7	0/-18
	1	277	60	0.22	1.12	1.87	97	1.4	7.7	0/-18
F54T5/47W	2	120	105	0.88	1.00	.95	1.00	1.4	4.8	-20/-29
	2	277	104	0.40	1.10	1.06	99	1.4	5.3	-20/-29
	1	120	58	0.48	1.00	1.72	1.00	1.4	6.9	-20/-29
	1	277	57	0.22	1.10	1.93	96	1.4	8.0	-20/-29
F58T8	2	120	110	0.90	.95	.86	1.00	1.4	4.7	-20/-29
	2	277	107	0.39	.95	.89	99	1.4	5.4	-20/-29
	1	120	59	0.49	1.08	1.83	1.00	1.4	6.6	-20/-29
	1	277	59	0.22	1.08	1.83	96	1.4	7.3	-20/-29
FT55W/4P	2	120	116	0.97	.86	.74	1.00	1.4	4.9	0/-18
	2	277	112	0.41	.86	.77	99	1.4	5.4	0/-18
	1	120	61	0.51	1.03	1.69	1.00	1.4	6.8	0/-18
	1	277	60	0.23	1.03	1.72	97	1.4	8.0	0/-18
FT50W/4P	2	120	118	1.00	1.05	.89	1.00	1.4	4.6	0/-18
	2	277	116	0.43	1.06	.91	99	1.4	5.2	0/-18
	1	120	64	0.53	1.18	1.84	1.00	1.4	6.6	0/-18
	1	277	63	0.24	1.18	1.87	97	1.4	7.4	0/-18

Safety and Performance

UL Type 1 Outdoor UL Type CC UL Listed Meets ANSI Standard C62.41-1991 UL Class P Meets ANSI Standard C82.11- cons 2002
FCC – CLASS A Non-Consumer Product is compliant with material restriction requirements of RoHS
High Temperature Rated: Suitable for high temperature applications 80°C max case temp 5 yr warranty.

UltraStart® Programmed Start T5 High Output

T5 Electronic Programmed Start For T5 HO Lamps*

67566 – GE454MVPS90-F (replaces 77114)

UltraStart® Programmed Start
T5 High Output
4-1 – F54T5HO 120 to 277V UltraStart® PS F Can

- High Efficiency T5 ballast with Continuous Cathode Cutout Technology
- Lower Maintenance Costs with Parallel Lamp Operation
- Fast Starting Time <700ms
- Multi-Voltage technology means a single ballast handles voltage from 108V to 305V
- Auto-Restart withstands temporary losses in power without the need to cycle power
- Anti-Striation Control for better light quality, with no striations
- 90°C case rating/UL Approved 55C Ambient Rating
- Individual lamp End of Lamp Life protection - only one lamp shuts down at end of life
- Cold temperature -20°F Minimum Starting Temperature

General Characteristics	
Ballast Type	Electronic – Programmed / Rapid Start
Starting Method	Programmed Start
Lamp Wiring	Parallel
Line Voltage Regulation(+/-)	10%
Ambient Temperature (MAX)	55°C (131°F)
Case Temperature (MAX)	90°C (194°F)
Ballast Factor	Normal
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Enclosure Type	Metal
Additional Info	Auto-restart, End-of-Life Protection (EOL), Thermally protected

Electrical Characteristics	
Supply Current Frequency	50 Hz/60 Hz

Dimensions	
Length (L)	11.75 in (298 mm)
Width (W)	1.7 in (43.2 mm)
Height (H)	1.2 in (30.5 mm)
Mounting Dimensions	
Mount Length (M)	16.7 in (424 mm)
Weight	2.79lbs
Exit Type	Side
Remote Mounting Distance to Lamp	8 ft
Remote Mounting Wire Gauge	18 AWG
Lead Lengths	**Length (± 1 in)**
Black	25 in (635 mm)
White	25 in (635 mm)

Specifications and lamp wattage

Lamp	# of Lamps	Line Volts (V)	System Watts (W)	Nom. Line Current (A)	System Ballast Factor	Ballast Efficacy Factor	Power Factor % (>=)	Crest Factor (<=)	THD% (<=)	Min Starting Temp (°F/°C)
FT55W/4P	4	120	206	1.73	.86	.42	99	1.4	5	0/-18
	4	277	203	0.75	.86	.42	97	1.4	8	0/-18
	3	120	168	1.41	.91	.54	99	7.0	6	0/-18
	3	277	168	0.63	.91	.54	97	1.4	10	0/-18
	2	120	125	1.04			99	1.4	7	0/-18
	2	277	124	0.48			94	1.4	16	0/-18
	1	120	64	0.54			99	1.4	10	0/-18
	1	277	66	0.28			84	1.4	25	0/-18
FT50W/4P	4	120	222	1.86	1.06	.48	99	1.4	5	0/-18
	4	277	218	0.81	1.06	.49	98	1.4	8	0/-18
	3	120	187	1.56	1.11	.59	99	1.4	6	0/-18
	3	277	184	0.68	1.11	.60	97	1.4	9	0/-18
	2	120	130	1.09			99	1.4	7	0/-18
	2	277	130	0.50			95	1.4	15	0/-18
	1	120	72	0.60			99	1.4	10	0/-18
	1	277	73	0.31			85	1.4	26	0/-18
F58T8	4	120	208	1.73	.95	.46	99	1.4	5	-20/-29
	4	277	204	0.76	.95	.47	97	1.4	9	-20/-29
	3	120	176	1.47	.99	.56	99	1.4	6	-20/-29
	3	277	173	0.65	.99	.57	94	1.4	10	-20/-29
	2	120	128	1.07			99	1.4	7	-20/-29
	2	277	127	0.49			94	1.4	16	-20/-29
	1	120	67	0.57			99	1.4	10	-20/-29
	1	277	68	0.29			85	1.4	25	-20/-29
F54T5/WM	4	120	214	1.79	1.00	.47	99	1.4	5	0/-18
	4	277	210	0.78	1.00	.48	98	1.4	8	0/-18
	3	120	181	1.51	1.01	.56	99	1.4	6	0/-18
	3	277	178	0.66	1.01	.57	97	1.4	9	0/-18
	2	120	130	1.09	.96	.74	99	1.4	7	0/-18
	2	277	135	0.51	.96	.71	95	1.4	15	0/-18
	1	120	69	0.58	1.12	1.62	99	1.4	10	0/-18
	1	277	70	0.30	1.12	1.60	85	1.4	26	0/-18
F54T5/HO	4	120	220	1.84	1.00	.45	99	1.4	5	-20/-29
	4	277	216	0.80	1.00	.46	98	1.4	8	-20/-29
	3	120	185	1.55	1.01	.55	99	1.4	6	-20/-29
	3	277	182	0.68	1.01	.55	97	1.4	9	-20/-29
	2	120	133	0.58	.96	.72	99	1.4	7	-20/-29
	2	277	132	0.50	.96	.72	95	1.4	15	-20/-29
	1	120	69	0.58	1.11	1.61	99	1.4	10	-20/-29
	1	277	70	0.30	1.11	1.59	85	1.4	26	-20/-29

Safety and Performance

Product is compliant with material restriction requirements of RoHS UL Type 1 Outdoor UL Type HL FCC – CLASS A Non-Consumer ANSI-C62.41-1991 ANSI-C82.11-Cons 2002 UL Class P UL Type CC UL Listed CSA
High Temperature Rated: Suitable for high temperature applications 70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty

UltraStart® Programmed Rapid Start Ballast
T5 Watt-Miser Electronic Program
T5 Electronic Programmed Start

62728 – GE254PS347/480-F

UltraStart® Programmed Rapid Start Ballast
T5 High Output

2 or 1 – F54T5HO 347 to 480V UltraStart® PS High Temperature F Can LFL

- High Efficiency T5 ballast with Continuous Cathode Cutout Technology
- Lower Maintenance Costs with Parallel Lamp Operation
- Fast Starting Time <700ms
- GE 3-Stage 3G Transient Suppression - Meets IEEE/ANSI C Low line to line transient capability up to 6KV
- Auto-Restart withstands temporary losses in power without the need to cycle power
- Anti-Striation Control for better light quality, with no striations.
- 90°C case rating/UL Approved 55°C Ambient Rating
- Individual lamp End of Lamp Life protection - only one lamp shuts down at end of life
- Cold temperature -20°F Minimum Starting Temperature

General Characteristics	
Ballast Type	Electronic – Programmed / Rapid Start
Starting Method	Programmed Rapid Start
Lamp Wiring	Parallel
Line Voltage Regulation(+/-)	10%
Ambient Temperature (MAX)	55°C (131°F)
Case Temperature (MAX)	90°C (194°F)
Ballast Factor	Normal
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Enclosure Type	Metal Can
Additional Info	Lamp End-of-Life Safety Shutdown Circuit/Auto-restart/ Anti-striation control

Electrical Characteristics	
Supply Current Frequency	50 Hz/60 Hz

Dimensions	
Length (L)	11.8 in (298 mm)
Width (W)	1.7 in (43.2 mm)
Height (H)	1.2 in (30.5 mm)
Mounting Dimensions	
Mount Length (M)	11.1 in (282 mm)
Weight	2.15lbs
Exit Type	Side
Remote Mounting Distance to Lamp	12 ft
Remote Mounting Wire Gauge	18 AWG
Lead Lengths	**Length (± 1 in)**
Black	25 in (635 mm)
Black & White	25 in (635 mm)
Blue	34 in (864 mm)
Red	34 in (864 mm)
Yellow	45 in (1143 mm)

Specifications and lamp wattage

Lamp	# of Lamps	Line Volts (V)	System Watts (W)	Nom. Line Current (A)	System Ballast Factor	Ballast Efficacy Factor	Power Factor % (>=)	Crest Factor (<=)	THD% (<=)	Min Starting Temp (°F/°C)
F54T5/HO	2	347	118	0.36	1.00	1.69	98	1.4	5	-22/-30
	2	480	118	0.26	1.00	1.69	99	1.4	6	-22/-30
	1	347	73	0.22	1.10	1.37	98	1.4	5	-22/-30
	1	480	73	0.16	1.10	1.37	96	1.4	8	-22/-30
FT50W/2G11	2	347	113	0.33	1.06	1.77	99	1.4	5	0/-18
	2	480	114	0.24	1.06	1.75	97	1.4	6	0/-18
	1	347	69	0.20	1.18	1.45	98	1.4	5	0/-18
	1	480	69	0.15	1.18	1.45	95	1.4	8	0/-18
F54T5/WM	2	347	113	0.33	1.00	1.77	99	1.4	5	0/-18
	2	480	113	0.24	1.00	1.77	97	1.4	6	0/-18
	1	347	69	0.20	1.12	1.45	98	1.4	6	0/-18
	1	480	69	0.15	1.12	1.43	95	1.4	8	0/-18
FT55W/4P	2	347	109	0.32	.86	1.83	99	1.4	5	0/-18
	2	480	109	0.24	.86	1.83	97	1.4	6	0/-18
	1	347	68	0.20	1.03	1.47	98	1.4	6	0/-18
	1	480	68	0.15	1.03	1.47	95	1.4	8	0/-18
F54T5/49W	2	347	107	0.31	1.00	1.87	99	1.4	6	0/-18
	2	480	107	0.23	1.00	1.87	97	1.4	6	0/-18
	1	347	65	0.19	1.10	1.56	98	1.4	5	0/-18
	1	480	65	0.14	1.10	1.54	95	1.4	8	0/-18
F54T5/47W	2	347	104	0.31	1.00	1.92	99	1.4	5	0/-18
	2	480	104	0.22	1.00	1.92	97	1.4	6	0/-18
	1	347	63	0.19	1.10	1.59	98	1.4	6	0/-18
	1	480	64	0.14	1.10	1.56	95	1.4	8	0/-18
F58T8	2	347	101	0.33	.95	1.98	99	1.4	5	-22/-30
	2	480	10	0.24	.95	1.98	97	1.4	6	-22/-30
	1	347	68	0.20	1.08	1.47	98	1.4	6	-22/-30
	1	480	69	0.15	1.08	1.45	95	1.4	6	-22/-30

Safety and Performance

UL Type 1 Outdoor UL Type HL FCC – CLASS A Non-Consumer ANSI-C62.41-1991 ANSI-C82.11-Cons 2002
ANSI-C62.41-2002 UL Class P UL Type CC UL 55C Ambient Approved CSA
High Temperature Rated: Suitable for high temperature applications No PCB's 70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty
Product is compliant with material restriction requirements of RoHS

UltraStart® Programmed Rapid Start Ballast
T5 Watt-Miser Electronic Program
T5 Electronic Programmed Start

62731 – GE454PS347-E

UltraStart® Programmed Rapid Start Ballast
T5 High Output
4-1 - F54T5HO 347V UltraStart® LFL E Can

- High Efficiency T5 ballast with Continuous Cathode Cutout Technology
- Lower Maintenance Costs with Parallel Lamp Operation
- Fast Starting Time <700ms
- Auto-Restart withstands temporary losses in power without the need to cycle power
- Anti-Striation Control for better light quality, with no striations.
- 90°C case rating/UL Approved 55°C Ambient Rating
- Individual lamp End of Lamp Life protection - only one lamp shuts down at end of life
- Cold temperature -20°F Minimum Starting Temperature

General Characteristics	
Ballast Type	Electronic – Programmed / Rapid Start
Starting Method	Programmed Rapid Start
Lamp Wiring	Parallel
Line Voltage Regulation(+/-)	10%
Ambient Temperature (MAX)	
Case Temperature (MAX)	70°C (158°F)
Ballast Factor	Normal
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Enclosure Type	Metal Can
Additional Info	Lamp End-of-Life Safety Shutdown Circuit/Auto-restart/ Anti-striation control

Electrical Characteristics	
Supply Current Frequency	50 Hz/60 Hz

Dimensions	
Length (L)	16.7 in (424 mm)
Width (W)	1.7 in (43.2 mm)
Height (H)	1.2 in (30.5 mm)
Mounting Dimensions	
Mount Length (M)	16.1 in (409 mm)
Weight	2.5lbs
Exit Type	Side
Remote Mounting Distance to Lamp	12 ft
Remote Mounting Wire Gauge	18 AWG
Lead Lengths	**Length (± 1 in)**
Black	25 in (635 mm)
White	25 in (635 mm)
Blue	34 in (864 mm)
Blue/White	34 in (864 mm)
Red	34 in (864 mm)
Red/White	34 in (864 mm)
Yellow	35 in (889 mm)

Specifications and lamp wattage

Lamp	# of Lamps	Line Volts (V)	System Watts (W)	Nom. Line Current (A)	System Ballast Factor	Ballast Efficacy Factor	Power Factor % (>=)	Crest Factor (<=)	THD% (<=)	Min Starting Temp (°F/°C)
F54T5/HO	4	347	229	0.68	1.00	1.75	99	1.4	5	-22/-30
	3	347	176	0.53	1.01	1.70	99	1.4	5	-22/-30
	2	347	125	0.37	.96	1.60	99	1.4	7	-22/-30
	1	347	68	0.21	1.12	1.47	94	1.4	16	-22/-30
FT50W/4P	4	347	227	0.68	1.06	1.76	99	1.4	5	0/-18
	3	347	177	0.53	1.11	1.69	99	1.4	5	0/-18
	2	347	126	0.37		1.59	99	1.4	6	0/-18
	1	347	69	0.22		1.47	94	1.4	16	0/-18
FT55W/4P	4	347	221	0.66	.86	1.81	99	1.4	5	0/-18
	3	347	173	0.51	.91	1.73	99	1.4	5	0/-18
	2	347	123	0.37		1.63	99	1.4	7	0/-18
	1	347	68	0.22		1.47	92	1.4	19	0/-18
F54T5/WM	4	347	219	0.65	1.00	1.83	99	1.4	5	0/-18
	3	347	171	0.51	1.01	1.75	99	1.4	5	0/-18
	2	347	121	0.36	.96	1.65	99	1.4	6	0/-18
	1	347	66	0.21	1.12	1.52	94	1.4	14	0/-18
F58T8	4	347	209	0.62	.95	1.91	99	1.4	5	-22/-30
	3	347	164	0.49	.99	1.83	99	1.4	5	-22/-30
	2	347	117	0.35	.96	1.71	99	1.4	6	-22/-30
	1	347	65	0.20	1.12	1.54	97	1.4	9	-22/-30
F54T5/47W	4	347	206	0.63	1.00	1.94	99	1.4	5	0/-18
	3	347	161	0.48	1.04	1.86	99	1.4	5	0/-18
	2	347	117	0.35	1.06	1.71	99	1.4	6	0/-18
	1	347	65	0.20	1.08	1.54	97	1.4	10	0/-18

Safety and Performance

UL Type 1 Outdoor UL Type HL FCC – CLASS A Non-Consumer ANSI-C62.41-1991 ANSI-C82.11-Cons 2002
ANSI-C62.41-2002 UL Class P UL Type CC UL 55C Ambient Approved Product is compliant with material restriction requirements of RoHS
High Temperature Rated: Suitable for high temperature applications No PCB's 70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty

Step Down Transformers
T5 Electronic Programmed Start Ballasts

74119 – GETR480/277-250W
Step Down Transformers
Non-Isolated Autotransformer 480 to 277V, <250 Watts (VA), A Can

- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity.
- Non-Isolated Autotransformer designed specifically for lighting applications to step down 480V to 277V
- For use with one or more electronic 277V or universal voltage ballasts within max total system power of autotransformer
- 480Vrms Input, 60Hz Only, 277Vrms Full Load Output or 347Vrms Input
- For loads with total system power <250VA
- Internal Auto Reset Thermal Protector Rated 100C
- For use on single phase or ground referred systems
- Five Year Limited Warranty
- 93% electrical efficiency

General Characteristics	
Ballast Type	Magnetic - Core & Coil
Case Temperature (MAX)	100°C (212°F)
Sound Rating	A (20-24 decibels)
Enclosure Type	Metal
Additional Info	Thermally protected

Electrical Characteristics	
Supply Current Frequency	60 Hz
Supply Current Frequency (MIN)	60 Hz

Specifications by lamp and wattage/Line Volts (V)
480V to 277V
347V to 200V

Dimensions	
Length (L)	9.5 in (241 mm)
Width (W)	1.7 in (43.2 mm)
Height (H)	1.18 in (30 mm)
Mounting Dimensions	
Mount Length (M)	8.9 in (226 mm)
Mount Width (X or F)	1.18 in (30 mm)
Mount Slots (MS)	0.3 in (8 mm)
Exit Type	Side
Remote Mounting Wire Gauge	14 AWG
Lead Lengths	**Length (± 1 in)**
Black	14.0 in (356 mm)
Blue	14.0 in (356 mm)
Red	14.0 in (356 mm)

Saftey and Performance
UL Type 1 Outdoor · UL Listed · UL Listed Autotransformer · cULus cUL

74120 – GETR480/277-375W
Step Down Transformers
Non-Isolated Autotransformer 480 to 277V, <375 Watts (VA), F Can

- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity.
- Non-Isolated Autotransformer designed specifically for lighting applications to step down 480V to 277V
- For use with one or more electronic 277V or universal voltage ballasts within max total system power of autotransformer
- 480Vrms Input, 60Hz Only, 277Vrms Full Load Output or 347Vrms Input
- For loads with total system power <375VA
- Internal Auto Reset Thermal Protector Rated 100C
- For use on single phase or ground referred systems
- Five Year Limited Warranty
- 93% electrical efficiency

General Characteristics	
Ballast Type	Magnetic - Core & Coil
Case Temperature (MAX)	100°C (212°F)
Sound Rating	A (20-24 decibels)
Enclosure Type	Metal
Additional Info	Thermally protected

Electrical Characteristics	
Supply Current Frequency	60 Hz
Supply Current Frequency (MIN)	60 Hz

Specifications by lamp and wattage/Line Volts (V)
480V to 277V
347V to 200V

Dimensions	
Length (L)	11.75 in (299 mm)
Width (W)	1.7 in (43.2 mm)
Height (H)	1.18 in (30 mm)
Mounting Dimensions	
Mount Length (M)	11.1 in (283 mm)
Mount Slots (MS)	0.3 in (8 mm)
Exit Type	Side
Remote Mounting Wire Gauge	14 AWG
Lead Lengths	**Length (± 1 in)**
Black	14.0 in (356 mm)
Blue	14.0 in (356 mm)
Red	14.0 in (356 mm)

Safety and Performance
UL Type 1 Outdoor · UL Listed · cULus cUL

ProLine® T12

T12 Electronic and High Output Ballasts

For F20 (2 ft), F30 (3 ft), F34/F40 (4 ft) T12 Lamps

74472 – GE240PS-MV-N (replaces 24107)

ProLine®

T12 Multivolt 120V – 277V

2 or 1 – F40 or F34T12 Rapid Start 120 to 277 "N" BF ProLine® T12

- High-performance electronic ballast for all general fluorescent applications
- Multi-voltage technology handles voltage from 120 to 277V
- Light weight, low-profile housing
- Parallel lamp operation means system maintenance is easier to manage

General Characteristics	
Ballast Type	Electronic – Programmed / Rapid Start
Starting Method	Rapid Start
Lamp Wiring	Parallel
Line Voltage Regulation(+/-)	10%
Ambient Temperature (MAX)	
Case Temperature (MAX)	70°C (158°F)
Ballast Factor	Normal
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Enclosure Type	Metal
Additional Info	Auto-restart, Thermally protected

Electrical Characteristics	
Supply Current Frequency	60 Hz

Dimensions	
Length (L)	9.5 in (241 mm)
Width (W)	1.3 in (33 mm)
Height (H)	1.2 in (30.5 mm)
Mounting Dimensions	
Mount Length (M)	8.9 in (226 mm)
Mount Width (X or F)	1.1 in (28 mm)
Mount Slots (MS)	0.3 in (8 mm)
Weight	1.06lbs
Exit Type	Side
Remote Mounting Distance to Lamp	18 ft
Remote Mounting Wire Gauge	18 AWG
Lead Lengths	**Length (± 1 in)**
Yellow	48 in (1219 mm)
Blue	33 in (838 mm)
Red	33 in (838 mm)
Black	25 in (635 mm)
White	25 in (635 mm)

Specifications and lamp wattage

Lamp	# of Lamps	Line Volts (V)	System Watts (W)	Nom. Line Current (A)	System Ballast Factor	Ballast Efficacy Factor	Power Factor % (>=)	Crest Factor (<=)	THD% (<=)	Min Starting Temp (°F/°C)
F40T12	2	120	74	0.67	.89	1.20	99	1.7	6	50/10
	2	277	73	0.30	.89	1.22	97	1.7	10	50/10
	1	120	48	0.41			99	1.7	7	50/10
	1	277	48	0.19			95	1.7	10	50/10
F40T10	2	120	75	0.63	.88	1.17	99	1.7	7	50/10
	2	277	72	0.27	.88	1.22	94	1.7	16	50/10
	1	120	42	0.35			99	1.7	10	50/10
	1	277	42	0.17			88	1.7	16	50/10
F34T12	2	120	63	0.56	.87	1.38	99	1.7	7	50/10
	2	277	62	0.26	.87	1.40	96	1.7	10	50/10
	1	120	41	0.35			99	1.7	8	50/10
	1	277	41	0.17			94	1.7	11	50/10
F30T12/WM	2	120	50	0.42	.95	1.90	99	1.7	9	50/10
	2	277	50	0.20	.95	1.90	91	1.7	18	50/10
	1	120	30	0.26			99	1.7	12	50/10
	1	277	30	0.13			82	1.7	27	50/10
F30T12	2	120	60	0.31	.95	1.58	99	1.7	7	50/10
	2	277	58	0.22	.95	1.64	96	1.7	10	50/10
	1	120	37	0.31			99	1.7	8	50/10
	1	277	37	0.16			94	1.7	11	50/10
F20T12	2	120	46	0.39	1.00	2.17	99	1.7	8	50/10
	2	277	45	0.18	1.00	2.22	94	1.7	11	50/10
	1	120	28	0.24			99	1.7	9	50/10
	1	277	29	0.13			92	1.7	17	50/10

Safety and Performance

UL Type 1 Outdoor · UL Type HL · UL Class P · NRCan · FCC Part 18 Class B at 120 volts · cUL Listed · UL Listed

Product is compliant with material restriction requirements of RoHS

ProLine® T12

T12 Electronic and High Output Ballasts

For T12 4 ft – 8 ft Slimline Lamps

74474 – GE-260IS-MV-N (replaces 24108)

ProLine®

T12 Multivolt 120V – 277V

2 or 1 – F96T12 Instant Start 120 to 277

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Multi-voltage technology handles voltage from 120 to 277V
- Light weight, low-profile housing
- Parallel lamp operation means system maintenance is easier to manage

General Characteristics	
Ballast Type	Electronic – Multivolt Instant Start
Starting Method	Rapid Start
Lamp Wiring	Parallel
Line Voltage Regulation(+/-)	10%
Ambient Temperature (MAX)	
Case Temperature (MAX)	70°C (158°F)
Ballast Factor	Normal
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Enclosure Type	Metal
Additional Info	Auto-restart, Thermally protected

Electrical Characteristics	
Supply Current Frequency	50Hz/60 Hz

Dimensions	
Length (L)	9.5 in (241 mm)
Width (W)	1.7 in (43 mm)
Height (H)	1.2 in (30.5 mm)
Mounting Dimensions	
Mount Length (M)	8.9 in (226 mm)
Mount Width (X or F)	1.1 in (28 mm)
Mount Slots (MS)	0.3 in (8 mm)
Weight	2.40lbs
Exit Type	Side
Remote Mounting Distance to Lamp	18 ft
Remote Mounting Wire Gauge	18 AWG
Lead Lengths	**Length (± 1 in)**
Black	25 in (635 mm)
White	25 in (635 mm)
Red	59 in (1499 mm)
Blue	67 in (1702 mm)

Specifications and lamp wattage

Lamp	# of Lamps	Line Volts (V)	System Watts (W)	Nom. Line Current (A)	System Ballast Factor	Ballast Efficacy Factor	Power Factor % (>=)	Crest Factor (<=)	THD% (<=)	Min Starting Temp (°F/°C)
F96T12/WMP	2	120	107	0.94	.88	.82	99	1.7	8	60/16
	2	277	106	0.40	.88	.83	96	1.7	10	60/16
	1	120	68	0.60	1.00	1.47	99	1.7	10	60/16
	1	277	68	0.27	1.00	1.47	95	1.7	12	60/16
F96T12/WM	2	120	112	0.98	.90	.80	99	1.7	8	60/16
	2	277	110	0.42	.90	.82	97	1.7	10	60/16
	1	120	72	0.63	1.00	1.39	99	1.7	10	60/16
	1	277	71	0.28	1.00	1.41	95	1.7	12	60/16
F96T12	2	120	141	1.24	.90	.64	99	1.7	8	0/-18
	2	277	138	0.53	.90	.65	98	1.7	10	0/-18
	1	120	90	0.79	1.02	1.13	99	1.7	10	0/-18
	1	277	89	0.34	1.02	1.15	96	1.7	12	0/-18
F84T12	2	120	125	1.10	.90	.72	99	1.7	8	0/-18
	2	277	123	0.47	.90	.73	97	1.7	10	0/-18
	1	120	80	0.70	1.04	1.30	99	1.7	10	0/-18
	1	277	79	0.30	1.04	1.32	96	1.7	12	0/-18
F72T12	2	120	107	0.94	.90	.84	99	1.7	8	0/-18
	2	277	106	0.40	.90	.85	97	1.7	10	0/-18
	1	120	69	0.60	1.08	1.51	99	1.7	10	0/-18
	1	277	69	0.27	1.08	1.51	95	1.7	12	0/-18
F64T12	2	120	97	0.86	.90	.93	99	1.7	8	0/-18
	2	277	96	0.37	.90	.94	97	1.7	10	0/-18
	1	120	63	0.55	1.08	1.71	99	1.7	10	0/-18
	1	277	63	0.25	1.08	1.71	95	1.7	12	0/-18
F60T12	2	120	92	0.81	.90	.98	99	1.7	8	0/-18
	2	277	91	0.35	.90	.99	96	1.7	10	0/-18
	1	120	60	0.53	1.08	1.80	99	1.7	10	0/-18
	1	277	60	0.28	1.08	1.80	94	1.7	12	0/-18
F48T12	2	120	73	0.65	.90	1.23	99	1.7	8	0/-18
	2	277	73	0.29	.90	1.23	95	1.7	10	0/-18
	1	120	49	0.43	1.10	2.24	99	1.7	10	0/-18
	1	277	48	0.20	1.10	2.29	89	1.7	12	0/-18

Safety and Performance

UL Type 1 Outdoor · NRCan · UL Type HL · FCC – CLASS A Non-Consumer · UL Class P · cUL Listed · UL Listed

Product is compliant with material restriction requirements of RoHS

35727 – GE296HO-MVPS-N

ProLine® T12 High Output
T12 Multivolt 120V – 277V

2 or 1 – F96T12 HO RS 120 to 277 Multivolt ProLine®

General Characteristics	
Ballast Type	Electronic – Programmed/ Rapid Start
Starting Method	Rapid Start
Lamp Wiring	Series
Line Voltage Regulation(+/-)	10%
Ambient Temperature (MAX)	105°F (41°C)
Case Temperature (MAX)	75°C (167°F)
Ballast Factor	Normal
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Additional Info	Auto-restart, Thermally protected

Electrical Characteristics	
Supply Current Frequency	50Hz/60 Hz

Dimensions	
Length (L)	11.75 in (299 mm)
Width (W)	2.15 in (55 mm)
Height (H)	1.61 in (41 mm)
Mounting Dimensions	
Mount Length (M)	11.0 in (279 mm)
Mount Width (X or F)	2.15 in (55 mm)
Mount Slots (MS)	
Weight	
Exit Type	Side
Remote Mounting Distance to Lamp*	
Remote Mounting Wire Gauge	

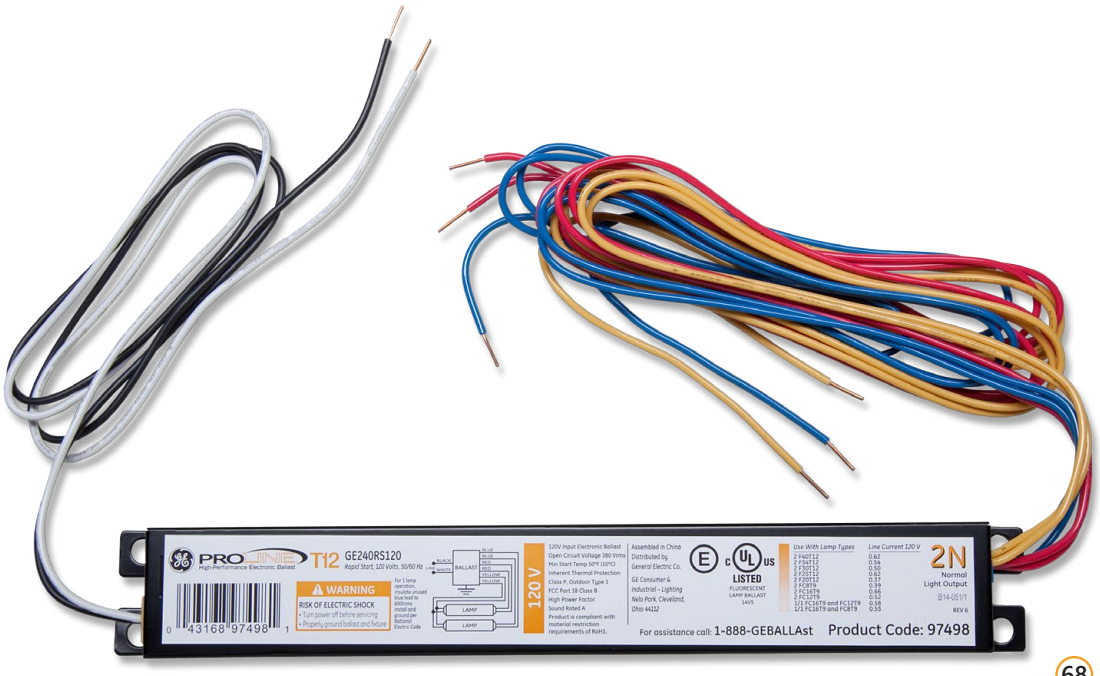
* See gelighting.com for wire lengths. Different for 10 pg vs. DIY pack.

Specifications by lamp and wattage

Lamp	# of Lamps	Line Volts (V)	System Watts (W)	Nom. Line Current (A)	System Ballast Factor	Ballast Efficacy Factor	Power Factor % (>=)	Crest Factor (<=)	THD% (<=)	Min Starting Temp (°F/°C)
F96T12/HO/WM	2	120	164	1.38	.90	.55	99	1.7	10	60/16
	2	277	164	0.62	.90	.55	99	1.7	10	60/16
F96T12/HO	2	120	196	1.65	.90	.47	99	1.7	10	-20/-29
	2	277	196	0.73	.90	.46	97	1.7	10	-20/-29
	1	120	104	0.88	.92	.88	99	1.7	15	-20/-29
	1	277	104	0.42	.92	.88	95	1.7	15	-20/-29
F72T12/HO	2	120	154	1.30	.90	.58	99	1.7	10	-20/-29
	2	277	154	0.57	.90	.58	96	1.7	10	-20/-29
F70T8	2	120	120	1.17	.90	.75	99	1.7	10	-20/-29
	2	277	119	0.52	.90	.76	97	1.7	10	-20/-29
F60T12/HO	2	120	132	0.50	.90	.68	96	1.7	10	-20/-29
	2	277	132	0.50	.90	.68	96	1.7	10	-20/-29
F48T12/HO	2	120	112	0.95	.90	.80	99	1.7	15	-20/-29
	2	277	113	0.43	.90	.80	95	1.7	15	-20/-29

Safety and Performance

cUL Listed UL Listed FCC Part 18 (Class A) Non Consumer



Compact Fluorescent Ballasts

UNDERSTANDING **COMPACT FLUORESCENT BALLASTS**

GE compact fluorescent (CFL) ballasts provide energy saving alternatives to halogen, incandescent or HID light sources. GE Multivolt ProLine® CFL programmed start ballasts combine universal voltage (108-305V) technology with multi-lamp capability, dual entry color-coded connectors and ultra system reliability to create an industry leading CFL solution for commercial and residential applications.

UltraMax® and UltraStart® High Lumen Biax® ballasts with the High Lumen WattMiser® Biax® lamp provides the perfect solution for high efficiency and high lumen output in a small space.

UltraMax® Instant Start Ballasts:

- For use in long burn cycles (>10 hr cycles) to maintain lamp life
- High efficiency (>90%) design
- Universal voltage (120-277V)
- Striation control circuitry
- Small compact housing

UltraStart® Programmed Start Ballasts:

- For use in shorter burn cycles (<3 hr cycles) to extend lamp life
- High efficiency (>90%) cathode cutout design
- Universal voltage (120-277V)
- Striation control circuitry
- Small compact housing
- Parallel lamp operation
- <700ms fast starting time
- Ballasts available for both F40/30W and F40/25W lamps

Multivolt ProLine® CFL ballasts are offered in three different configurations:
1) -SE description – dual entry (side or bottom) connectors,
2) -BES – bottom entry with studs for mounting to junction boxes and
3) -3W – 3-way mounting kits that allow you to have all three mounting options with one kit.

Multivolt ProLine® CFL ballasts come with a five-year ballast and one-year lamp limited warranty. These ballasts also meet the EPA's ENERGY STAR® fixture program requirements with a Consumer Class B EMI rating for residential applications, as well as a high power factor ballast design.

Use the GE Multivolt ProLine® CFL Multi-Lamp compatibility chart (page 17-3) to find the right ballast for your need.

ProLine® CFL Date Code System

Date Code Format: 01 200801 = Week2008 = Year

UltraMax® and UltraStart® Biax® ballasts have the same date code system as all linear fluorescent ballasts.

ProLine® CFL Electronic Ballasts
Compact Fluorescent Ballasts For 13 – 70W T4 CFL Lamps

63089 – GEC213-MVPS-3W
ProLine® CFL Electronic Ballasts
2 or 1 – CFQ13W/G24q 120-227V ProLine® PS

- Multi-voltage technology means a single ballast handles voltage from 108V to 305V
- Programmed starting for extended lamp life
- End-of-Lamp-Life protection
- Color coded poke-in connectors simplifies wiring

General Characteristics	
Ballast Type	Electronic – Program/ Rapid Start
Starting Method	Programmed Start
Lamp Wiring	Series
Line Voltage Regulation(+/-)	10%
Ambient Temperature (MAX)	104°F (40°C)
Case Temperature (MAX)	70°C (158°F)
Ballast Factor	Normal
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Additional Info	End-of-Life Protection (EOL), Thermally protected, Universal voltage

Electrical Characteristics	
Supply Current Frequency	50Hz/60 Hz

Dimensions			
Physical Parameters	**3W**	**BES**	**SE**
Length (L)	5.0 in (127 mm)	4.26 in (107 mm)	5.0 in (127 mm)
Width (W)	2.4 in (61 mm)	2.4 in (61 mm)	2.4 in (61 mm)
Height (H)	1.0 in (25 mm)	1.0 in (25 mm)	1.0 in (25 mm)
Mounting Dimensions			
Bracket Length (BL)			
Mount Length (M)	4.63 in (118 mm)		
Mount Width (X or F)	2.4 in (61 mm)		
Mount Slots (MS)			
Weight	0.381 lbs	0.423 lbs	0.395 lbs
Exit Type	Dual Entry (SE/BE, BES, 3W)		
Remote Mounting Distance to Lamp	20 ft		
Remote Mounting Wire Gauge	18 AWG		

Specifications by lamp and wattage

Lamp	# of Lamps	Line Volts (V)	System Watts (W)	Nom. Line Current (A)	System Ballast Factor	Ballast Efficacy Factor	Power Factor % (>=)	Crest Factor (<=)	THD% (<=)	Min Starting Temp (°F/°C)
CFQ13W/G24q	2	120	32	0.26	1.04	3.30	99	1.7	10	-20/-29
	2	277	32	0.12	1.04	3.30	96	1.7	10	-20/-29
	1	120	15	0.19	1.09	7.30	99	1.7	10	-20/-29
	1	277	15	0.06	1.09	7.30	89	1.7	18	-20/-29
CFTR13W/GX24q	2	120	32	0.27	1.07	3.30	99	1.7	10	-20/-29
	2	277	32	0.12	1.07	3.30	96	1.7	10	-20/-29
	1	120	16	0.13	1.10	6.90	99	1.7	10	-20/-29
	1	277	16	0.07	1.10	6.90	88	1.7	18	-20/-29
CFS10W/GR10q	2	120	26	0.22	1.06	4.10	99	1.7	10	-20/-29
	2	277	25	0.10	1.06	4.20	94	1.7	11	-20/-29
	1	120	13	0.10	1.09	8.40	99	1.7	10	-20/-29
	1	277	13	0.07	1.09	8.40	84	1.7	21	-20/-29
CFQ18W/G24q	1	120	19	0.16	.99	5.20	99	1.7	10	-20/-29
	1	277	19	0.07	.99	5.20	89	1.7	16	-20/-29
CFTR18W/GX24q	1	120	19	0.16	.96	5.10	99	1.7	10	-20/-29
	1	277	19	0.08	.96	5.10	88	1.7	15	-20/-29
CFS16W/GR10q	1	120	17	0.14	1.00	5.90	99	1.7	10	-20/-29
	1	277	17	0.07	1.00	5.90	90	1.7	16	-20/-29

Safety and Performance

FCC Part 18 Class B UL Class P UL Type 1 Outdoor No PCB's ANSI Standard C82.11-Cons 2002 ANSI Standard C62.41-1991

ProLine® CFL Electronic Ballasts
Compact Fluorescent Ballasts For 13 – 70W T4 CFL Lamps

63093 – GEC218-MVPS-3W
ProLine® CFL Electronic Ballasts
2 or 1 – CFQ18W/G24q 120-227V ProLine® PS

- Multi-voltage technology means a single ballast handles voltage from 108V to 305V
- Programmed starting for extended lamp life
- End-of-Lamp-Life protection
- Color coded poke-in connectors simplifies wiring

General Characteristics	
Ballast Type	Electronic – Program/ Rapid Start
Starting Method	Programmed Start
Lamp Wiring	Series
Line Voltage Regulation(+/-)	10%
Ambient Temperature (MAX)	104°F (40°C)
Case Temperature (MAX)	70°C (158°F)
Ballast Factor	Normal
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Additional Info	End-of-Life Protection (EOL), Thermally protected, Universal voltage

Electrical Characteristics	
Supply Current Frequency	50Hz/60 Hz

Dimensions			
Physical Parameters	**3W**	**BES**	**SE**
Length (L)	5.0 in (127 mm)	4.26 in (107 mm)	5.0 in (127 mm)
Width (W)	2.4 in (61 mm)	2.4 in (61 mm)	2.4 in (61 mm)
Height (H)	1.0 in (25 mm)	1.0 in (25 mm)	1.0 in (25 mm)
Mounting Dimensions			
Bracket Length (BL)			
Mount Length (M)	4.63 in (118 mm)		
Mount Width (X or F)	2.4 in (61 mm)		
Mount Slots (MS)			
Weight	0.412 lbs	0.454 lbs	0.426 lbs
Exit Type	Dual Entry (SE/BE, BES, 3W)		
Remote Mounting Distance to Lamp	20 ft		
Remote Mounting Wire Gauge	18 AWG		

Specifications by lamp and wattage

Lamp	# of Lamps	Line Volts (V)	System Watts (W)	Nom. Line Current (A)	System Ballast Factor	Ballast Efficacy Factor	Power Factor % (>=)	Crest Factor (<=)	THD% (<=)	Min Starting Temp (°F/°C)
CFQ18W/G24q	2	120	43	0.35	1.05	2.40	99	1.7	10	-20/-29
	2	277	42	0.15	1.05	2.50	96	1.7	10	-20/-29
	1	120	21	0.17	1.08	5.10	99	1.7	10	-20/-29
	1	277	21	0.08	1.08	5.10	88	1.7	15	-20/-29
CFTR18W/GX24q	2	120	44	0.37	1.04	2.40	99	1.7	10	-20/-29
	2	277	43	0.16	1.04	2.40	96	1.7	10	-20/-29
	1	120	22	0.19	1.07	4.90	99	1.7	10	-20/-29
	1	277	22	0.08	1.07	4.90	87	1.7	14	-20/-29
CFS21W/GR10q	2	120	45	0.38	.86	1.90	99	1.7	10	-20/-29
	2	277	44	0.16	.86	2.00	96	1.7	10	-20/-29
	1	120	22	0.19	.93	4.20	99	1.7	10	-20/-29
	1	277	22	0.09	.93	4.20	88	1.7	15	-20/-29
CFS16W/GR10q	2	120	39	0.32	1.00	2.60	99	1.7	10	-20/-29
	2	277	38	0.14	1.00	2.60	95	1.7	10	-20/-29
CFQ26W/GX24q	1	120	22	0.19	.91	4.10	99	1.7	10	-20/-29
	1	277	22	0.09	.92	4.20	89	1.7	14	-20/-29
CFTR26W/GX24q	1	120	26	0.21	.85	3.30	99	1.7	10	-20/-29
	1	277	26	0.10	.85	3.30	89	1.7	14	-20/-29
CFS28W/GR10q	1	120	25	0.21	.87	3.50	99	1.7	10	-20/-29
	1	277	25	0.10	.87	3.50	91	1.7	13	-20/-29

Safety and Performance

FCC Part 18 Class B UL Class P UL Type 1 Outdoor No PCB's ANSI Standard C82.11-Cons 2002 ANSI Standard C62.41-1991

ProLine® CFL Electronic Ballasts
Compact Fluorescent Ballasts For 13 – 70W T4 CFL Lamps

63097 – GEC226-MVPS-3W
ProLine® CFL Electronic Ballasts
2 – CFQ26W, FT24 or 1 – 24W CFTR32 120-227V ProLine® PS

- Multi-voltage technology means a single ballast handles voltage from 108V to 305V
- Programmed starting for extended lamp life
- End-of-Lamp-Life protection
- Color coded poke-in connectors simplifies wiring

General Characteristics	
Ballast Type	Electronic – Program/ Rapid Start
Starting Method	Programmed Start
Lamp Wiring	Series
Line Voltage Regulation(+/-)	10%
Ambient Temperature (MAX)	104°F (40°C)
Case Temperature (MAX)	75°C (167°F)
Ballast Factor	Normal
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Additional Info	Auto restart, Thermally protected, Universal voltage

Electrical Characteristics	
Supply Current Frequency	50Hz/60 Hz

Dimensions			
Physical Parameters	**3W**	**BES**	**SE**
Length (L)	5.0 in (127 mm)	4.26 in (107 mm)	5.0 in (127 mm)
Width (W)	2.4 in (61 mm)	2.4 in (61 mm)	2.4 in (61 mm)
Height (H)	1.0 in (25 mm)	1.0 in (25 mm)	1.0 in (25 mm)
Mounting Dimensions			
Bracket Length (BL)			
Mount Length (M)	4.63 in (118 mm)		
Mount Width (X or F)	2.4 in (61 mm)		
Mount Slots (MS)			
Weight	0.419 lbs	0.461 lbs	0.434 lbs
Exit Type	Dual Entry (SE/BE, BES, 3W)		
Remote Mounting Distance to Lamp	12 ft		
Remote Mounting Wire Gauge	18 AWG		

Specifications by lamp and wattage

Lamp	# of Lamps	Line Volts (V)	System Watts (W)	Nom. Line Current (A)	System Ballast Factor	Ballast Efficacy Factor	Power Factor % (>=)	Crest Factor (<=)	THD% (<=)	Min Starting Temp (°F/°C)
CFQ26W/G24q	2	120	56	0.47	1.02	1.82	99	1.7	10	-20/-29
	2	277	54	0.20	1.02	1.89	97	1.7	11	-20/-29
	1	120	30	0.25	1.04	3.47	99	1.7	10	-20/-29
	1	277	30	0.12	1.04	3.47	93	1.7	13	-20/-29
CFTR26W/GX24q	2	120	64	0.53	.97	1.52	99	1.7	10	-20/-29
	2	277	64	0.23	.88	1.38	97	1.7	12	-20/-29
	1	120	32	0.26	1.01	3.16	99	1.7	10	-20/-29
	1	277	32	0.12	1.00	3.16	94	1.7	13	-20/-29
CFS21W/GR10q	2	120	56	0.47	1.12	2.00	99	1.7	10	-20/-29
	2	277	55	0.20	1.11	2.02	96	1.7	11	-20/-29
CFTR42W/GX24q	1	120	51	0.42	.92	1.80	99	1.7	10	-20/-29
	1	277	50	0.18	.92	1.84	97	1.7	12	-20/-29
CFTR32W/GX24q	1	120	39	0.33	1.24	3.18	99	1.7	10	-20/-29
	1	277	39	0.15	1.23	3.15	95	1.7	13	-20/-29
FC16T9 40W	1	120	40	0.33	.89	2.23	99	1.7	10	-20/-29
	1	277	40	0.14	.94	2.35	95	1.7	13	-20/-29
FT24W/2G11	1	120	27	0.23	1.04	3.85	99	1.7	10	-20/-29
	1	277	27	0.11	1.10	4.07	91	1.7	14	-20/-29
FT36W/2G11	1	120	35	0.29	.94	2.69	99	1.7	10	-20/-29
	1	277	35	0.13	.94	2.69	94	1.7	13	-20/-29
FT39W/2G11	1	120	33	0.27	.97	2.94	99	1.7	10	-20/-29
	1	277	33	0.12	.98	2.97	94	1.7	14	-20/-29

Safety and Performance

FCC Part 18 Class B UL Class P UL Type 1 Outdoor No PCB's ANSI Standard C82.11-Cons 2002 ANSI Standard C62.41-1991

ProLine® CFL Electronic Ballasts
Compact Fluorescent Ballasts For 13 – 70W T4 CFL Lamps

63100 – GEC242-MVPS-3W
ProLine® CFL Electronic Ballasts
2 – 42/36/32/28/26/24 watt 120-227V ProLine® PS

- Electronic compact fluorescent ballasts for all general fluorescent applications
- Low-profile case

General Characteristics	
Ballast Type	Electronic – Program/ Rapid Start
Starting Method	Programmed Start
Lamp Wiring	Series
Line Voltage Regulation(+/-)	10%
Ambient Temperature (MAX)	122°F (50°C)
Case Temperature (MAX)	75°C (167°F)
Ballast Factor	Normal
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Additional Info	Auto restart, Thermally protected, Universal voltage

Electrical Characteristics	
Supply Current Frequency	50Hz/60 Hz

Dimensions	
Length (L)	5.0 in (127 mm)
Width (W)	3.0 in (76 mm)
Height (H)	1.38 in (35 mm)
Mounting Dimensions	
Bracket Length (BL)	4.63 in (118 mm)
Mount Length (M)	
Mount Width (X or F)	
Mount Slots (MS)	
Weight	0.90 lbs
Exit Type	Dual Entry (SE/BE, BES, 3W)

Specifications by lamp and wattage

Lamp	# of Lamps	Line Volts (V)	System Watts (W)	Nom. Line Current (A)	System Ballast Factor	Ballast Efficacy Factor	Power Factor % (>=)	Crest Factor (<=)	THD% (<=)	Min Starting Temp (°F/°C)
CFTR42W/GX24q	2	120	94	0.77	1.00	1.14	99	1.7	10	0/-18
	2	277	93	0.38	1.00	1.08	98	1.7	10	0/-18
	1	120	47	0.40	1.00	2.13	99	1.7	10	0/-18
	1	277	47	0.18	1.00	2.13	96	1.7	10	0/-18
CFTR32W/GX24q	2	120	63	0.53	.95	1.51	99	1.7	10	0/-18
	2	277	63	0.23	.95	1.51	98	1.7	12	0/-18
	1	120	42	0.35	.96	2.29	99	1.7	10	0/-18
	1	277	42	0.13	.96	2.29	96	1.7	12	0/-18
CFQ26W/G24q, CFTR26W/GX24q	2	120	54	0.45	.90	1.67	99	1.7	10	0/-18
	2	277	54	0.21	.90	1.67	97	1.7	12	0/-18
	1	120	32	0.27	1.00	3.12	99	1.7	10	0/-18
	1	277	32	0.13	1.00	3.12	95	1.7	12	0/-18
CFTR42W/GX24q	2	120	63	0.52	.78	1.25	99	1.7	10	0/-18
	2	277	62	0.23	.79	1.27	98	1.7	10	0/-18
	1	120	33	0.27	.80	2.45	99	1.7	10	0/-18
	1	277	33	0.13	.80	2.44	94	1.7	15	0/-18
CFTR32W/GX24q	2	120	82	0.69	.95	1.16	99	1.7	10	0/-18
	2	277	82	0.30	.95	1.16	98	1.7	10	0/-18
	1	120	45	0.37	1.00	2.22	99	1.7	10	0/-18
	1	277	45	0.17	1.00	2.22	96	1.7	12	0/-18
CFTR42W/GX24q	2	120	70	0.59	.80	1.13	99	1.7	10	0/-18
	2	277	70	0.26	.81	1.15	98	1.7	10	0/-18
	1	120	37	0.31	.84	2.24	99	1.7	10	0/-18
	1	277	37	0.14	.84	2.24	95	1.7	15	0/-18
CFTR32W/GX24q	2	120	52	0.44	1.10	2.11	99	1.7	10	0/-18
	2	277	52	0.19	1.10	2.11	97	1.7	12	0/-18
	1	120	28	0.23	1.10	3.97	99	1.7	10	0/-18
	1	277	28	0.11	1.11	3.92	93	1.7	12	0/-18
CFS16W/GR10q	1	120	58	0.49	1.00	1.72	99	1.7	10	0/-18
	1	277	58	0.22	1.00	1.72	97	1.7	12	0/-18
CFQ26W/GX24q	1	120	73	0.61	1.00	1.37	99	1.7	10	0/-18
	1	277	73	0.27	1.00	1.37	97	1.7	12	0/-18
CFTR26W/GX24q	1	120	43	0.36	.71	1.65	99	1.7	10	0/-18
	1	277	44	0.16	.72	1.66	96	1.7	12	0/-18

63100 – GEC242-MVPS-3W (Cont.)

ProLine® CFL Electronic Ballasts

2 – 42/36/32/28/26/24 watt 120-227V ProLine® PS

Specifications by lamp and wattage

Lamp	# of Lamps	Line Volts (V)	System Watts (W)	Nom. Line Current (A)	System Ballast Factor	Ballast Efficacy Factor	Power Factor % (>=)	Crest Factor (<=)	THD% (<=)	Min Starting Temp (°F/°C)
FT40W/2G11	2	120	82	0.69	.95	1.16	99	1.7	10	0/-18
	2	277	82	0.30	.95	1.16	98	1.7	10	0/-18
	1	120	45	0.37	1.00	2.22	99	1.7	10	0/-18
	1	277	45	0.17	1.00	2.22	96	1.7	12	0/-18
FT36W/2G11	2	120	63	0.52	.78	1.25	99	1.7	10	0/-18
	2	277	62	0.23	.79	1.27	98	1.7	10	0/-18
	1	120	33	0.27	.80	2.45	99	1.7	10	0/-18
	1	277	33	0.13	.80	2.44	94	1.7	15	0/-18
FT24W/2G11	2	120	54	0.45	1.00	1.85	99	1.7	10	0/-18
	2	277	54	0.20	1.00	1.85	97	1.7	12	0/-18
	1	120	26	0.22	.92	3.56	99	1.7	10	0/-18
	1	277	27	0.10	.92	3.48	92	1.7	15	0/-18
CFS28W/GR10q	2	120	60	0.50	.95	1.60	99	1.7	10	0/-18
	2	277	60	0.22	.97	1.62	98	1.7	10	0/-18
	1	120	34	0.29	1.00	2.94	99	1.7	10	0/-18
	1	277	34	0.14	1.00	2.94	93	1.7	15	0/-18
FC9T5+FC12T5	1+1	120	67	0.55	.90	1.34	99	1.7	10	0/-18
	1+1	277	67	0.25	.90	1.34	98	1.7	10	0/-18
CFS55W/GRY10q-3	1	120	33	0.28	.49	1.48	99	1.7	10	0/-18
	1	277	32	0.13	.49	1.53	94	1.7	10	0/-18

Safety and Performance

FCC Part 18 Class B at 120 volts · UL Class P · UL Listed · cUL

High-Lumen Biax® UltraMax® Instant Start
Compact Fluorescent Ballasts

71435 – GEC240MAX-A

High-Lumen Biax® UltraMax® Instant Start

2 or 1 – FT40W-25W/2G11 Biax - 120-277V UltraMax® Instant Start

- Electronic compact fluorescent ballasts for all general fluorescent applications
- Low-profile case
- Multi-Voltage technology handles voltage from 120 to 277V
- Energy saving, high efficiency instant start electronic ballast (> 90%)
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Anti-Striation Control for better light quality, with no striations
- Lamp End-of-Life Safety Shutdown Circuit with Re-Lamping Auto-reset

General Characteristics	
Ballast Type	Electronic – High Efficiency Instant Start
Starting Method	Instant Start
Lamp Wiring	Parallel
Line Voltage Regulation(+/-)	10%
Ambient Temperature (MAX)	105°F (41°C)
Case Temperature (MAX)	70°C (158°F)
Ballast Factor	Normal
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Additional Info	End-of-Life Protection (EOL), Thermally protected

Electrical Characteristics	
Supply Current Frequency	50Hz/60 Hz

Dimensions	
Length (L)	9.5 in (241 mm)
Width (W)	1.7 in (43 mm)
Height (H)	1.18 in (30 mm)
Mounting Dimensions	
Mount Length (M)	8.9 in (226 mm)
Mount Width (X or F)	1.18 in (30 mm)
Mount Slots (MS)	0.3 in (8 mm)
Weight	1.40lbs
Exit Type	Side
Remote Mounting Distance to Lamp	12 ft
Remote Mounting Wire Gauge	18 AWG
Lead Lengths	**Length (± 1 in)**
Blue	31 in (787 mm)
Red	31 in (787 mm)
White	25 in (635 mm)
Black	25 in (635 mm)

Specifications by lamp and wattage

Lamp	# of Lamps	Line Volts (V)	System Watts (W)	Nom. Line Current (A)	System Ballast Factor	Power Factor % (>=)	Crest Factor (<=)	THD% (<=)	Min Starting Temp (°F/°C)
FT40W/4P	2	120	69	0.58	.90	99	1.7	10	0/-18
	2	277	68	0.25	.90	95	1.7	10	0/-18
	1	120	42	0.35	1.00	99	1.7	10	0/-18
	1	277	42	0.16	1.00	95	1.7	15	0/-18
FT40W/28W/4P	2	120	63	0.54	1.00	99	1.7	10	0/-18
	2	277	62	0.23	1.00	95	1.7	10	0/-18
	1	120	38	0.32	1.11	99	1.7	10	0/-18
	1	277	38	0.14	1.11	95	1.7	15	0/-18
FT40W/25W/4P	2	120	58	0.50	1.00	99	1.7	10	0/-18
	2	277	57	0.21	1.00	90	1.7	10	0/-18
	1	120	35	0.29	1.15	99	1.7	10	0/-18
	1	277	35	0.13	1.15	95	1.7	15	0/-18
F32T8	2	120	63	0.54	.94	99	1.7	10	0/-18
	2	277	62	0.23	.94	95	1.7	10	0/-18
	1	120	38	0.32	1.08	99	1.7	10	0/-18
	1	277	38	0.14	1.08	95	1.7	15	0/-18
F28T5/HE	2	120	69	0.59	1.10	99	1.7	10	0/-18
	2	277	68	0.25	1.10	95	1.7	10	0/-18
	1	120	41	0.35	1.26	99	1.7	10	0/-18
	1	277	41	0.15	1.26	95	1.7	15	0/-18

Safety and Performance

UL Type 1 Outdoor · UL Type HL · FCC – CLASS A Non-Consumer · UL Class P · CSA · UL Listed

High-Lumen Biax® UltraMax® Instant Start
Compact Fluorescent Ballasts

71436 – GEC340MAX-A

High-Lumen Biax® UltraMax® Instant Start

3 – FT40W-25W/2G11 Biax - 120-277V UltraMax® Instant Start

- Electronic compact fluorescent ballasts for all general fluorescent applications
- Low-profile case
- Multi-Voltage technology handles voltage from 120 to 277V
- Energy saving, high efficiency instant start electronic ballast (> 90%)
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Anti-Striation Control for better light quality, with no striations
- Lamp End-of-Life Safety Shutdown Circuit with Re-Lamping Auto-reset

General Characteristics	
Ballast Type	Electronic – High Efficiency Instant Start
Starting Method	Instant Start
Lamp Wiring	Parallel
Line Voltage Regulation(+/-)	10%
Ambient Temperature (MAX)	105°F (41°C)
Case Temperature (MAX)	70°C (158°F)
Ballast Factor	Normal
Power Factor Correction	Active
Sound Rating	A (20-24 decibels)
Additional Info	End-of-Life Protection (EOL), Thermally protected

Electrical Characteristics	
Supply Current Frequency	50Hz/60 Hz

Dimensions	
Length (L)	9.5 in (241 mm)
Width (W)	1.7 in (43 mm)
Height (H)	1.18 in (30 mm)
Mounting Dimensions	
Mount Length (M)	8.9 in (226 mm)
Mount Width (X or F)	1.18 in (30 mm)
Mount Slots (MS)	0.3 in (8 mm)
Weight	1.40 lbs
Exit Type	Side
Remote Mounting Distance to Lamp	12 ft
Remote Mounting Wire Gauge	18 AWG
Lead Lengths	**Length (± 1 in)**
Blue	31 in (787 mm)
Red	31 in (787 mm)
White	25 in (635 mm)
Black	25 in (635 mm)

Specifications by lamp and wattage

Lamp	# of Lamps	Line Volts (V)	System Watts (W)	Nom. Line Current (A)	System Ballast Factor	Power Factor % (>=)	Crest Factor (<=)	THD% (<=)	Min Starting Temp (°F/°C)
FT40W/4P	3	120	100	0.86	.90	99	1.7	10	0/-18
	3	277	99	0.36	.90	99	1.7	10	0/-18
	2	120	76	0.65	.98	99	1.7	10	0/-18
	2	277	75	0.27	.98	95	1.7	10	0/-18
FT40W/28W/4P	3	120	93	0.79	1.00	99	1.7	10	0/-18
	3	277	91	0.33	1.00	95	1.7	10	0/-18
	2	120	70	0.59	1.07	99	1.7	10	0/-18
	2	277	69	0.25	1.07	95	1.7	10	0/-18
FT40W/25W/4P	3	120	85	0.73	1.00	99	1.7	10	0/-18
	3	277	84	0.31	1.00	95	1.7	10	0/-18
	2	120	64	0.53	1.11	99	1.7	10	0/-18
	2	277	63	0.23	1.11	95	1.7	10	0/-18
F32T8	3	120	92	0.78	.94	99	1.7	10	0/-18
	3	277	90	0.33	.94	95	1.7	10	0/-18
	2	120	69	0.59	1.03	99	1.7	10	0/-18
	2	277	68	0.25	1.03	95	1.7	10	0/-18
F28T5/HE	3	120	102	0.87	1.10	99	1.7	10	0/-18
	3	277	100	0.37	1.10	99	1.7	10	0/-18
	2	120	76	0.66	1.19	99	1.7	10	0/-18
	2	277	75	0.28	1.19	95	1.7	10	0/-18

Safety and Performance

UL Type 1 Outdoor · UL Type HL · FCC – CLASS A Non-Consumer · UL Class P · CSA · UL Listed

Electromagnetic HID Ballasts

UNDERSTANDING **ELECTROMAGNETIC HID BALLASTS**

GE offers High Intensity Discharge (HID) ballasts for mercury, probe start metal halide, pulse start metal halide and high pressure sodium lamps. Standard metal halide lamps or probe start metal halide over 150 watts, like fluorescent, are electric discharge lamps and require an open circuit voltage of nearly two times the operating voltage to the initiate the arc between the two electrodes in the arc tube. High pressure sodium, pulse start metal halide and probe start metal halide lamps 150 watts or less require an ignitor to initiate the high voltage to start the lamps. The ballasts provide the starting voltage with the igniter, where required, and provides stability for the lamp. HID lamps have negative impedance characteristics and would draw current until destruction unless a ballast was in place to regulate the current.

HID lamps take several minutes to warm-up and reach full light output. If power is interrupted between the lamp and the ballast, the arc will extinguish and lamp will go out. The lamp must cool down and reduce the vapor pressure before it will re-start. Typical warm-up and restrike times are as follows:

GE HID ballast 150 watts or less have High Reactance Autotransformer circuits and high power factor (HX-HPF). GE HID ballast greater that 150 watts have Constant Wattage Auto transformer circuits and are high power factor (HPF).

CWA ballast is the most common circuit for core and coil ballast. CWA circuits provide for stable light regulation. The CWA circuit consists of a high reactance autotransformer with a capacitor in series with the lamp resulting with high power factor ballast. In most CWA ballast circuits a 10% drop in line voltage will only reduce the light output and wattage by 5%. The CWA circuit ballast requires an igniter for QMH pulse start, ceramic metal halide and HPS lamps. Igniters are also required for QMH lamps 150 watts or less.

GE HID Ballast Types

Core and Coil

The most common HID ballasts are the core and coil and is used in 90% of the fixture applications. Core and coil ballasts consist of one, two or three copper (or aluminum) coils on a core of electrical-grade steel laminations. HID ballasts are classified by the kind of circuit they use: Reactor (R), High Reactance autotransformer (HX), Constant Wattage Autotransformer (CWA), Regulated lag (Reg Lag) or Electronic. HID ballast are also classified as high power factor (HPF) or normal power factor (NPF).

Metal Halide
HID Electromagnetic Ballasts
For 20 – 175W Metal Halide HID Lamps

86675 – GEM100MLTLC3D-5
Metal Halide
1 – 100W MH M90 or M140 Quad (120/208/240/277V)

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

General Characteristics	
Ballast Type	Magnetic – Core and Coil
ANSI Lamp Codes	M92, M90, M140
Voltage	120/208/240/277
Line Voltage Regulation(+/-)	5%
Circuit Type	HX-HPF
Insulation Class	180° C
Type of Capacitor	Dry Film
Capacitance	12 Mfd GECAP-12/280V-D
Voltage (MIN)	280
Capacitor Temperature Rating	100°C (212°F)
GE Igniter	MH350-1A
Sound Rating	
Additional Info	

Electrical Characteristics	
Supply Current Frequency	60 Hz

Dimensions	
Length (L)	5.25 in (133 mm
Width (W)	1.25 in (32 mm)
Mounting Dimensions	
Mount Length (M)	4.6 in (117 mm)
Mount Width (X or F)	
Mount Slots (MS)	0.25 in (6 mm)
A	2.0
B	3.0
Weight	5.0 lbs
Exit Type	Side
Nominal Length	2.7 in (69 mm)
Frame Size (H x L)	2.813 in x 3.939 in

Specifications by lamp and line voltage

Lamp	Specifications by line voltage	120	208	240	277
M92	System Wattage (W)	119	119	119	119
	Nominal Current	1.10A	0.60A	0.50A	0.50A
	Ballast Factor	1	1	1	1
	Ballast Efficiency Factor				
	Max Input Current	2.27A	1.30A	1.13A	0.98A
	Starting Current	1.26A	0.69A	0.60A	0.53A
	Open Circuit Voltage	274V	274V	274V	274V
	Drop Out Voltage	96V	166V	192V	222V
	Power Factor (>=) %	90	90	90	90
	Min. Starting Temp (°F/°C)	-22/-30	-22/-30	-22/-30	-22/-30
	Fuse Rating	5	4	3	3
	UL Bench Top Rise	D	D	D	D

Lamp	Specifications by line voltage	120	208	240	277
M90, M140 100W Ceramic Metal Halide 100W Quartz Metal Halide	System Wattage (W)	119	119	119	119
	Nominal Current	1.10A	0.60A	0.50A	0.50A
	Ballast Factor	1	1	1	1
	Ballast Efficiency Factor	0.84	0.84	0.84	0.84
	Max Input Current	2.27A	1.30A	1.13A	0.98A
	Starting Current	1.26A	0.69A	0.60A	0.53A
	Open Circuit Voltage	274V	274V	274V	274V
	Drop Out Voltage	96V	166V	192V	222V
	Power Factor (>=) %		90	90	90
	Min. Starting Temp (°F/°C)	-22/-30	-22/-30	-22/-30	-22/-30
	Fuse Rating	5	4	3	3
	UL Bench Top Rise	D	D	D	D

Safety and Performance
cUL Listed UL Listed

Metal Halide

HID Electromagnetic Ballasts

For 20 – 175W Metal Halide HID Lamps

86718 – GEM150MLTLC3D-5

Metal Halide

1 – 150W MH M102 or M142 Quad (120/208/240/277V)

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

General Characteristics	
Ballast Type	Magnetic – Core and Coil
ANSI Lamp Codes	M142, M102
Voltage	120/208/240/277
Line Voltage Regulation(+/-)	5%
Circuit Type	HX-HPF
Insulation Class	180° C
Type of Capacitor	Dry Film
Capacitance	16 Mfd GECAP-16/280V-D
Voltage (MIN)	300
Capacitor Temperature Rating	100°C (212°F)
GE Igniter	MH350-1A
Sound Rating	
Additional Info	

Electrical Characteristics	
Supply Current Frequency	60 Hz

Dimensions	
Length (L)	5.25 in (133 mm
Width (W)	1.25 in (32 mm)
Mounting Dimensions	
Mount Length (M)	4.6 in (117 mm)
Mount Width (X or F)	
Mount Slots (MS)	0.25 in (6 mm)
A	2.3
B	4.0
Weight	7.0 lbs
Exit Type	Side
Nominal Length	2.7 in (69 mm)
Frame Size (H x L)	2.813 in x 3.939 in

Specifications by lamp and line voltage

Lamp	Specifications by line voltage	120	208	240	277
M142, M102 150W Ceramic Metal Halide 150W Quartz Metal Halide	System Wattage (W)	186	186	186	186
	Nominal Current	1.60A	1.00A	0.80A	0.70A
	Ballast Factor	1	1	1	1
	Ballast Efficiency Factor	0.81	0.81	0.81	0.81
	Max Input Current	3.37A	1.95A	1.68A	1.39A
	Starting Current	1.86A	1.03A	0.89A	0.77A
	Open Circuit Voltage	257V	257V	257V	257V
	Drop Out Voltage	96V	166V	192V	222V
	Power Factor (>=) %	90	90	90	90
	Min. Starting Temp (°F/°C)	-22/-30	-22/-30	-22/-30	-22/-30
	Fuse Rating	10	5	5	4
	UL Bench Top Rise	A	B	A	A

Safety and Performance

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Metal Halide

HID Electromagnetic Ballasts

For 250 – 1500W Metal Halide HID Lamps

87211 – GEM250ML5AC3-5

Metal Halide

1 – 250W MH M58 5-Tap (120/208/240/277/480V)

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 volt) featuring a 480-volt tap

General Characteristics	
Ballast Type	Magnetic – Core and Coil
ANSI Lamp Codes	M58
Voltage	120/208/240/277/480
Line Voltage Regulation(+/-)	10%
Circuit Type	CWA
Insulation Class	180° C
Type of Capacitor	Oil Filled
Capacitance	15 Mfd GECAP-15/400V-O
Voltage (MIN)	400
Capacitor Temperature Rating	100°C (212°F)
GE Igniter	
Sound Rating	
Additional Info	

Electrical Characteristics	
Supply Current Frequency	60 Hz

Dimensions	
Length (L)	5.25 in (133 mm
Width (W)	1.25 in (32 mm)
Mounting Dimensions	
Mount Length (M)	4.6 in (117 mm)
Mount Width (X or F)	
Mount Slots (MS)	0.25 in (6 mm)
A	3.0
B	4.3
Weight	9.0 lbs
Exit Type	Side
Nominal Length	3.2 in (83 mm)
Frame Size (H x L)	2.813 in x 3.939 in
Lead Lengths	
Orange	
Violet & Black	
Violet/White	
Black/Yellow	

Specifications by lamp and line voltage

Lamp	Specifications by line voltage	120	208	240	277	480
M58 250W Quartz Metal Halide	System Wattage (W)	280	280	280	280	280
	Nominal Current	2.50A	1.40A	1.25A	1.10A	0.65A
	Ballast Factor	1	1	1	1	1
	Ballast Efficiency Factor	0.89	0.89	0.89	0.89	0.89
	Max Input Current	2.60A	1.60A	1.30A	1.20A	0.70A
	Starting Current	1.50A	1.00A	0.80A	0.70A	0.50A
	Open Circuit Voltage	290V	290V	290V	290V	290V
	Drop Out Voltage	96V	166V	192V	222V	384V
	Power Factor (>=) %	90	90	90	90	90
	Min. Starting Temp (°F/°C)	-22/-30	-22/-30	-22/-30	-22/-30	-22/-30
	Fuse Rating	8	5	4	3	2
	UL Bench Top Rise	B	B	B	C	C

Safety and Performance

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Metal Halide
HID Electromagnetic Ballasts
For 250 – 1500W Metal Halide HID Lamps

72300 – GEM400ML5AA4-5/2
Metal Halide
1 – 400W M59 or H33 5-Tap (120/208/240/277/480V) A1 C&C

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 volt) featuring a 480-volt tap

General Characteristics	
Ballast Type	Magnetic – Core and Coil
ANSI Lamp Codes	M59
Voltage	120/208/240/277/480
Line Voltage Regulation(+/-)	10%
Circuit Type	CWA
Insulation Class	Class H, 180°C or Class N, 200°C
Type of Capacitor	Oil Filled
Capacitance	24 Mfd GECAP-24/400V-O
Voltage (MIN)	450
Capacitor Temperature Rating	105°C (221°F)
GE Igniter	
Sound Rating	
Additional Info	

Electrical Characteristics	
Supply Current Frequency	60 Hz

Dimensions	
Length (L)	5.25 in (133 mm
Width (W)	1.25 in (32 mm)
Mounting Dimensions	
Mount Length (M)	4.6 in (117 mm)
Mount Width (X or F)	
Mount Slots (MS)	0.25 in (6 mm)
A	2.17
B	3.90
Weight	10.8 lbs
Exit Type	Side
Nominal Length	3.7 in (95 mm)
Frame Size (H x L)	4.25 in x 4.75 in
Lead Lengths	
Orange	
Violet & Black	
Violet/White	
Black/Yellow	

Specifications by lamp and line voltage

Lamp	Specifications by line voltage	120	208	240	277	480
M59 400W Quartz Metal Halide 360W Quartz Metal Halide	System Wattage (W)	461	461	461	461	461
	Nominal Current	4.0A	2.3A	2.0A	1.75A	1.00A
	Ballast Factor	1	1	1	1	1
	Ballast Efficiency Factor	0.86	0.86	0.86	0.86	0.86
	Max Input Current	4.0A	2.3A	2.0A	1.75A	1.00A
	Starting Current	3.90A	3.90A	3.90A	3.90A	3.90A
	Open Circuit Voltage	300V	300V	300V	300V	300V
	Drop Out Voltage	580V	580V	580V	580V	580V
	Power Factor (>=) %	90	90	90	90	90
	Min. Starting Temp (°F/°C)	-22/-30	-22/-30	-22/-30	-22/-30	-22/-30
	Fuse Rating	8	5	4	3	2
	UL Bench Top Rise	D or A	D or A	D or A	D or A	D or A

Safety and Performance

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Metal Halide

HID Electromagnetic Ballasts

For 250 – 1500W Metal Halide HID Lamps

87213 – GEM1000ML5AA5-5/2

Metal Halide

1 – 1000W MH M47 5-Tap (120/208/240/277/480V)

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 volt) featuring a 480-volt tap

General Characteristics	
Ballast Type	Magnetic – Core and Coil
ANSI Lamp Codes	M47
Voltage	120/208/240/277/480
Line Voltage Regulation(+/-)	10%
Circuit Type	CWA
Insulation Class	Class H, 180°C or Class N, 200°C
Type of Capacitor	Oil Filled
Capacitance	24 Mfd GECAP-24/480V-O
Voltage (MIN)	480
Capacitor Temperature Rating	105°C (221°F)
GE Igniter	
Sound Rating	
Additional Info	

Electrical Characteristics	
Supply Current Frequency	60 Hz

Dimensions	
Length (L)	7.75 in (197 mm
Width (W)	2.75 in (70 mm)
Mounting Dimensions	
Mount Length (M)	6.1 in (155 mm)
Mount Width (X or F)	
Mount Slots (MS)	0.25 in (6 mm)
A	3.0
B	5.0
Weight	21.0 lbs
Exit Type	Side
Nominal Length	3.7 in (95 mm)
Frame Size (H x L)	4.25 in x 6.00 in
Lead Lengths	
Orange	
Violet & Black	
Violet/White	
Black/Yellow	

Specifications by lamp and line voltage

Lamp	Specifications by line voltage	120	208	240	277	480
M47 1000W Quartz Metal Halide	System Wattage (W)	1,050	1,050	1,050	1,050	1,050
	Nominal Current	9.00A	5.20A	4.50A	3.90A	2.25A
	Ballast Factor	1	1	1	1	1
	Ballast Efficiency Factor	0.91	0.91	0.91	0.91	0.91
	Max Input Current	9.00A	5.20A	4.50A	3.90A	2.25A
	Starting Current	5.60A	5.60A	5.60A	5.60A	5.60A
	Open Circuit Voltage	415V	415V	415V	415V	415V
	Drop Out Voltage	96V	166V	192V	222V	384V
	Power Factor (>=) %	90	90	90	90	90
	Min. Starting Temp (°F/°C)	-22/-30	-22/-30	-22/-30	-22/-30	-22/-30
	Fuse Rating	18	10	9	7	5
	UL Bench Top Rise	D or A	D or A	D or A	D or A	D or A

Safety and Performance

cUL Listed UL Listed

Metal Halide

HID Electromagnetic Ballasts

For 250 – 1500W Metal Halide HID Lamps

86693 – GEM150048TAC5M5-5

Metal Halide

1 – 1500W MH M48 480

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement

General Characteristics	
Ballast Type	Magnetic – Core and Coil
ANSI Lamp Codes	M48
Voltage	480
Line Voltage Regulation(+/-)	10%
Circuit Type	CWA
Insulation Class	180°C
Type of Capacitor	Oil Filled
Capacitance	32 Mfd GECAP-32/525V-O
Voltage (MIN)	525
Capacitor Temperature Rating	100°C (212°F)
GE Igniter	
Sound Rating	
Additional Info	

Electrical Characteristics	
Supply Current Frequency	60 Hz

Dimensions	
Length (L)	7.75 in (197 mm
Width (W)	2.75 in (70 mm)
Mounting Dimensions	
Mount Length (M)	6.1 in (155 mm)
Mount Width (X or F)	
Mount Slots (MS)	0.25 in (6 mm)
A	4.0
B	6.0
Weight	30.0 lbs
Exit Type	Side
Nominal Length	5.2 in (133 mm)
Frame Size (H x L)	4.25 in x 6.00 in

Specifications by lamp and line voltage

Lamp	Specifications by line voltage	480
M48 1500W Quartz Metal Halide	System Wattage (W)	1,581
	Nominal Current	3.10A
	Ballast Factor	1
	Ballast Efficiency Factor	0.95
	Max Input Current	3.10A
	Starting Current	3.18A
	Open Circuit Voltage	449V
	Drop Out Voltage	384V
	Power Factor (>=) %	90
	Min. Starting Temp (°F/°C)	-22/-30
	Fuse Rating	10
	UL Bench Top Rise	G

Safety and Performance

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Metal Halide

HID Electromagnetic Ballasts

For 250 – 1500W Metal Halide HID Lamps

86698 – GEM1500MLTAC5-5

Metal Halide

1 – 1500W MH M48 Quad (120/208/240/277V)

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

General Characteristics	
Ballast Type	Magnetic – Core and Coil
ANSI Lamp Codes	M48
Voltage	240/277
Line Voltage Regulation(+/-)	10%
Circuit Type	CWA
Insulation Class	180°C
Type of Capacitor	Oil Filled
Capacitance	32 Mfd GECAP-32/525V-O
Voltage (MIN)	525
Capacitor Temperature Rating	100°C (212°F)
GE Igniter	
Sound Rating	
Additional Info	

Electrical Characteristics	
Supply Current Frequency	60 Hz

Dimensions	
Length (L)	7.75 in (197 mm
Width (W)	2.75 in (70 mm)
Mounting Dimensions	
Mount Length (M)	6.1 in (155 mm)
Mount Width (X or F)	
Mount Slots (MS)	0.25 in (6 mm)
A	4.0
B	6.0
Weight	30.0 lbs
Exit Type	Side
Nominal Length	5.2 in (133 mm)
Frame Size (H x L)	4.25 in x 6.00 in

Specifications by lamp and line voltage

Lamp	Specifications by line voltage	120	208	240	277
M48 1500W Quartz Metal Halide	System Wattage (W)	1,602	1,602	1,602	1,602
	Nominal Current	13.70A	7.70A	6.80A	6.00A
	Ballast Factor	1	1	1	1
	Ballast Efficiency Factor	0.94	0.94	0.94	0.94
	Max Input Current	13.70A	7.70A	6.80A	6.00A
	Starting Current	12.95A	7.46A	6.52A	5.75A
	Open Circuit Voltage	440V	440V	440V	440V
	Drop Out Voltage	96V	166V	192V	222V
	Power Factor (>=) %	90	90		90
	Min. Starting Temp (°F/°C)	-22/-30	-22/-30	-22/-30	-22/-30
	Fuse Rating	40	25	20	20
	UL Bench Top Rise	A	A	A	A

Safety and Performance

cUL Listed UL Listed

Pulse Start
HID Electromagnetic Ballasts
For 175 – 1000W Pulse Start Metal Halide HID Lamps

67345 – GEP320MLTAA4-5/2
Pulse Start
1 – 320W PS M132 or 154 Quad (120/208/240/277V)

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

General Characteristics	
Ballast Type	Magnetic – Core and Coil
ANSI Lamp Codes	M154, M132
Voltage	120/208/240/277
Line Voltage Regulation(+/-)	10%
Circuit Type	CWA
Insulation Class	Class H, 180°C or Class N, 200°C
Type of Capacitor	Oil Filled
Capacitance	21 Mfd GECAP-21/345V-O
Voltage (MIN)	370
Capacitor Temperature Rating	105°C (221°F)
GE Igniter	MH350-1A
Sound Rating	
Additional Info	

Electrical Characteristics	
Supply Current Frequency	60 Hz

Dimensions	
Length (L)	5.25 in (133 mm
Width (W)	1.25 in (32 mm)
Mounting Dimensions	
Mount Length (M)	4.6 in (117 mm)
Mount Slots (MS) Mount Width (X or F)	0.25 in (6 mm)
A	1.89
B	3.60
Weight	9.50 lbs
Exit Type	Side
Nominal Length	3.7 in (95 mm)
Frame Size (H x L)	4.25 in x 4.75 in

Specifications by lamp and line voltage

Lamp	Specifications by line voltage	120	208	240	277
M48 1500W Quartz Metal Halide	System Wattage (W)	370	370	370	370
	Nominal Current	3.10A	1.80A	1.55A	1.34A
	Ballast Factor	1	1	1	1
	Ballast Efficiency Factor	0.86	0.86	0.86	0.86
	Max Input Current	3.10A	1.80A	1.55A	1.34A
	Starting Current	3.20A	3.20A	3.20A	3.20A
	Open Circuit Voltage	270V	270V	270V	270V
	Drop Out Voltage	540V	540V	540V	540V
	Power Factor (>=) %	90	90	90	90
	Min. Starting Temp (°F/°C)	-20/-30	-20/-30	-20/-30	-20/-30
	Fuse Rating	7	4	3	3
	UL Bench Top Rise	A or B	A or C	A or C	A or C

Safety and Performance

cUL Listed UL Listed

Pulse Start
HID Electromagnetic Ballasts
For 175 – 1000W Pulse Start Metal Halide HID Lamps

67347 – GEP400MLTAA4-5/2
Pulse Start
1 – 400W PS M59 Quad (120/208/240/277V)

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

General Characteristics	
Ballast Type	Magnetic – Core and Coil
ANSI Lamp Codes	M59
Voltage	120/208/240/277
Line Voltage Regulation(+/-)	10%
Circuit Type	CWA
Insulation Class	Class H, 180°C or Class N, 200°C
Type of Capacitor	Oil Filled
Capacitance	24 Mfd GECAP-24/400V-O
Voltage (MIN)	450
Capacitor Temperature Rating	105°C (221°F)
GE Igniter	MH350-1A
Sound Rating	
Additional Info	

Electrical Characteristics	
Supply Current Frequency	60 Hz

Dimensions	
Length (L)	5.25 in (133 mm
Width (W)	1.25 in (32 mm)
Mounting Dimensions	
Mount Length (M)	4.6 in (117 mm)
Mount Width (X or F)	
Mount Slots (MS)	0.25 in (6 mm)
A	2.17
B	3.90
Weight	10.80 lbs
Exit Type	Side
Nominal Length	4.6 in (119 mm)
Frame Size (H x L)	4.25 in x 4.75 in

Specifications by lamp and line voltage

Lamp	Specifications by line voltage	120	208	240	277
M59	System Wattage (W)	457	457	457	457
	Nominal Current	4.00A	2.30A	2.00A	1.75A
	Ballast Factor	1	1	1	1
	Ballast Efficiency Factor	0.87	0.87	0.87	0.87
	Max Input Current	4.00A	2.30A	2.00A	1.75A
	Starting Current	3.80A	3.80A	3.80A	3.80A
	Open Circuit Voltage	300V	300V	300V	300V
	Drop Out Voltage	580V	580V	580V	580V
	Power Factor (>=) %	90	90	90	90
	Min. Starting Temp (°F/°C)	-20/-30	-20/-30	-20/-30	-20/-30
	Fuse Rating	8	5	4	3
	UL Bench Top Rise	A or D	A or D	A or D	A or D

Safety and Performance

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High Pressure Sodium
HID Electromagnetic
For 50 – 150W High Pressure Sodium HID Lamps

87094 – GES150MLTLC3D-5
High Pressure Sodium
1 – 150W HPS S55 Quad (120/208/240/277V)

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

General Characteristics	
Ballast Type	Magnetic – Core and Coil
ANSI Lamp Codes	S55
Voltage	120/208/240/277
Line Voltage Regulation(+/-)	5%
Circuit Type	HX-HPF
Insulation Class	180° C
Type of Capacitor	Dry Film
Capacitance	14 Mfd GECAP-14/280V-D
Voltage (MIN)	280
Capacitor Temperature Rating	100°C (212°F)
GE Igniter	HPS150-3A
Sound Rating	
Additional Info	

Electrical Characteristics	
Supply Current Frequency	60 Hz

Dimensions	
Length (L)	5.25 in (133 mm
Width (W)	1.25 in (32 mm)
Mounting Dimensions	
Mount Length (M)	4.6 in (117 mm)
Mount Width (X or F)	
Mount Slots (MS)	0.25 in (6 mm)
A	3.0
B	4.0
Weight	7.60 lbs
Exit Type	Side
Nominal Length	2.7 in (69 mm)
Frame Size (H x L)	2.813 in x 3.939 in

Specifications by lamp and line voltage

Lamp	Specifications by line voltage	120	208	240	277
S55 150W High Pressure Sodium 250W Quartz Metal Halide	System Wattage (W)	175	175	175	175
	Nominal Current	1.60A	0.90A	0.80A	0.70A
	Ballast Factor	1	1	1	1
	Ballast Efficiency Factor	1.43	1.43	1.43	1.43
	Max Input Current	2.72A	1.53A	1.34A	1.16A
	Starting Current	1.64A	0.88A	0.76A	0.65A
	Open Circuit Voltage	115V	115V	115V	115V
	Drop Out Voltage	96V	166V	192V	222V
	Power Factor (>=) %	90	90	90	90
	Min. Starting Temp (°F/°C)	-22/-30	-22/-30	-22/-30	-22/-30
	Fuse Rating	10	5	5	5
	UL Bench Top Rise	B	B	B	B

Safety and Performance

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High Pressure Sodium
HID Electromagnetic
For 250 – 1000W High Pressure Sodium HID Lamps

87214 – GES250ML5AA4-5
High Pressure Sodium
1 – 250W HPS S50 5-Tap (120/208/240/277/480V)

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 volt) featuring a 480-volt tap

General Characteristics	
Ballast Type	Magnetic – Core and Coil
ANSI Lamp Codes	S50
Voltage	120/208/240/277/480
Line Voltage Regulation(+/-)	10%
Circuit Type	CWA
Insulation Class	180°C
Type of Capacitor	Oil Filled
Capacitance	35 Mfd GECAP-35/240V-O
Voltage (MIN)	240
Capacitor Temperature Rating	100°C (212°F)
GE Igniter	HPS400-3A
Sound Rating	
Additional Info	

Electrical Characteristics	
Supply Current Frequency	60 Hz

Dimensions	
Length (L)	5.25 in (133 mm
Width (W)	1.25 in (32 mm)
Mounting Dimensions	
Mount Length (M)	4.6 in (117 mm)
Mount Width (X or F)	
Mount Slots (MS)	0.25 in (6 mm)
A	2.0
B	4.0
Weight	12.0 lbs
Exit Type	Side
Nominal Length	3.7 in (95 mm)
Frame Size (H x L)	4.25 in x 4.75 in
Lead Lengths	
Orange	
Violet & Black	
Violet/White	
Black/Yellow	

Specifications by lamp and line voltage

Lamp	Specifications by line voltage	120	208	240	277	480
S50 250W High Pressure Sodium	System Wattage (W)	292	292	292	292	292
	Nominal Current	2.50A	1.50A	1.30A	1.10A	0.60A
	Ballast Factor	1	1	1	1	1
	Ballast Efficiency Factor	0.86	0.86	0.86	0.86	0.86
	Max Input Current	2.50A	1.50A	1.30A	1.10A	0.60A
	Starting Current	1.59A	0.93A	0.81A	0.70A	0.40A
	Open Circuit Voltage	186V	186V	186V	186V	186V
	Drop Out Voltage	96V	166V	192V	222V	384V
	Power Factor (>=) %	90	90	90	90	90
	Min. Starting Temp (°F/°C)	-22/-30	-22/-30	-22/-30	-22/-30	-22/-30
	Fuse Rating	8	5	4	4	4
	UL Bench Top Rise	C	C	B	B	B

Safety and Performance

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High Pressure Sodium
HID Electromagnetic
For 250 – 1000W High Pressure Sodium HID Lamps

63066 – GES400ML5AA4-5 (replaces 87215)

High Pressure Sodium

1 – 400W HPS S51 5-Tap (120/208/240/277/480V)

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 volt) featuring a 480-volt tap

General Characteristics	
Ballast Type	Magnetic – Core and Coil
ANSI Lamp Codes	S51
Voltage	120/208/240/277/480
Line Voltage Regulation(+/-)	10%
Circuit Type	CWA
Insulation Class	180°C
Type of Capacitor	Oil Filled
Capacitance	55 Mfd GECAP-55/240V-O
Voltage (MIN)	240
Capacitor Temperature Rating	100°C (212°F)
GE Igniter	HPS400-3A 86641
Sound Rating	
Additional Info	

Electrical Characteristics	
Supply Current Frequency	60 Hz

Dimensions	
Length (L)	5.25 in (133 mm
Width (W)	1.25 in (32 mm)
Mounting Dimensions	
Mount Length (M)	4.6 in (117 mm)
Mount Width (X or F)	
Mount Slots (MS)	0.25 in (6 mm)
A	2.0
B	4.0
Weight	15.0 lbs
Exit Type	Side
Nominal Length	4.2 in (108 mm)
Frame Size (H x L)	4.25 in x 4.75 in
Lead Lengths	
Orange	
Violet & Black	
Violet/White	
Black/Yellow	

Specifications by lamp and line voltage

Lamp	Specifications by line voltage	120	208	240	277	480
S51 400W High Pressure Sodium	System Wattage (W)	472	472	472	472	472
	Nominal Current	4.00A	2.20A	2.00A	1.70A	1.00A
	Ballast Factor	1	1	1	1	1
	Ballast Efficiency Factor	0.85	0.85	0.85	0.85	0.85
	Max Input Current	4.00A	2.20A	2.00A	1.70A	1.00A
	Starting Current	2.87A	1.66A	1.44A	1.25A	0.72A
	Open Circuit Voltage	191V	191V	191V	191V	191V
	Drop Out Voltage	96V	166V	192V	222V	384V
	Power Factor (>=) %	90	90	90	90	90
	Min. Starting Temp (°F/°C)	-22/-30	-22/-30	-22/-30	-22/-30	-22/-30
	Fuse Rating	15	8	8	5	5
	UL Bench Top Rise	C	C	C	C	C

Safety and Performance

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High Pressure Sodium
HID Electromagnetic
For 250 – 1000W High Pressure Sodium HID Lamps

87218 – GES1000ML5AA5-5
High Pressure Sodium
1 – 1000W HPS S52 5-Tap (120/208/240/277/480V)

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 volt) featuring a 480-volt tap

General Characteristics	
Ballast Type	Magnetic – Core and Coil
ANSI Lamp Codes	S52
Voltage	120/208/240/277/480
Line Voltage Regulation(+/-)	10%
Circuit Type	CWA
Insulation Class	180°C
Type of Capacitor	Oil Filled
Capacitance	26 Mfd GECAP-26/525V-O
Voltage (MIN)	525
Capacitor Temperature Rating	100°C (212°F)
GE Igniter	HPS1000-4B
Sound Rating	
Additional Info	

Electrical Characteristics	
Supply Current Frequency	60 Hz

Dimensions	
Length (L)	7.75 in (197 mm
Width (W)	2.75 in (70 mm)
Mounting Dimensions	
Mount Length (M)	6.1 in (155 mm)
Mount Width (X or F)	
Mount Slots (MS)	0.25 in (6 mm)
A	4.0
B	6.0
Weight	28.0 lbs
Exit Type	Side
Nominal Length	4.7 in (121 mm)
Frame Size (H x L)	4.25 in x 6.00 in
Lead Lengths	
Orange	
Violet & Black	
Violet/White	
Black/Yellow	

Specifications by lamp and line voltage

Lamp	Specifications by line voltage	120	208	240	277	480
S52 1000W High Pressure Sodium	System Wattage (W)	1,102	1,102	1,102	1,102	1,102
	Nominal Current	9.50A	5.50A	4.70A	4.10A	2.40A
	Ballast Factor	1	1	1	1	1
	Ballast Efficiency Factor	0.91	0.91	0.91	0.91	0.91
	Max Input Current	9.50A	5.50A	4.70A	4.10A	2.40A
	Starting Current	5.75A	3.40A	2.90A	2.60A	1.80A
	Open Circuit Voltage	435V	435V	435V	435V	435V
	Drop Out Voltage	96V	166V	192V	222V	384V
	Power Factor (>=) %	90	90	90	90	90
	Min. Starting Temp (°F/°C)	-22/-30	-22/-30	-22/-30	-22/-30	-22/-30
	Fuse Rating	20	15	10	10	8
	UL Bench Top Rise	D	D	D	D	D

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