

Ordering Guide and System Wattage

Starting	Ballast Factor	# Lamps	Product Code	Description	Input Voltage	F32T8 Input Watts			F32T8/WM Input Watts			F28T8 UMX Input Watts	F32T8/25W Input Watts
						Input Watts	In Fixture Open	In Fixture Enclosed	Input Watts	In Fixture Open	In Fixture Enclosed		
IS	L.77	1	72258	GE-132-MAX-L/Ultra	120	25	24	24	24	23	23	22	21
					277	25	24	24	24	23	23	22	21
IS	L.77	2	72262	GE-232-MAX-L/Ultra	120	49	49	48	47	47	46	43	38
					277	48	48	47	46	46	45	43	38
IS	L.77	3	78621	GE-332-MAX-L/Ultra	120	72	71	70	69	68	67	64	58
					277	71	70	69	68	67	66	63	57
IS	L.77	4	78625	GE-432-MAX-L/Ultra	120	97	95	93	92	90	88	86	77
					277	95	92	91	91	89	87	84	75
IS	N.87	1	72259	GE-132-MAX-N/Ultra	120	28	28	27	26	26	25	25	23
					277	28	28	27	26	26	25	25	23
IS	N.87	2	72266	GE-232-MAX-N/Ultra	120	54	54	53	53	52	51	49	44
					277	53	53	52	52	51	50	48	43
IS	N.87	3	78623	GE-332-MAX-N/Ultra	120	82	80	78	77	76	74	71	65
					277	80	78	77	76	74	73	70	64
IS	N.87	4	78627	GE-432-MAX-N/Ultra	120	108	102	101	102	98	95	94	87
					277	106	100	99	100	96	94	92	86
IS	N+ 1.0	2or1	71421	GE-232MAX-N+	120	62			59			55	46
					277	61			58			54	46
IS	N+ 1.0	3	71422	GE-332MAX-N+	120	91			87			83	68
					277	90			86			82	67
IS	N+ 1.0	4	71423	GE-432MAX-N+	120	124			119			114	87
					277	121			117			112	86
IS	H 1.15	2or1	49775	GE-232-MAX-H/Ultra	120	74	71	69	71	69	67	66	60
					277	73	70	68	70	68	66	65	60
IS	H 1.18	3	78619	GE-332-MAX-H/Ultra	120	106	105	102	102	100	95	95	90
					277	104	103	100	100	98	94	94	88
IS	H 1.18	4	71723	GE-432-MAX-H/Ultra	120	148	144	139	139	135	131	127	120
					277	145	141	136	136	132	128	125	116
IS	H 1.18	6or5	74117	GE632MAX-H90	120	221			205			187	178
					277	215			200			184	176
						F96T8 Input Watts		F96T8/WM Input Watts		F96T8/WM+			
IS	N.87	1	49766	GE-159-MAX-N/Ultra	120	54			51			TBD	
					277	53			51			TBD	
IS	N.87	2	49767	GE-259-MAX-N/Ultra	120	108			104			98	
					277	101			101			98	
IS	L.77	2	73199	GE-259-MAX-L/Ultra	120	95			93			89	
					277	94			91			87	
IS	H 1.15	2	30176	GE-286-HO-MV-N (Multi-Volt ProLine)	120	142			136			125 (1.37 BF)	
					277	139			134			123 (1.37 BF)	

* All product codes listed are 10 packs

ULTRAMAX[®] L
High-Efficiency Electronic Ballast

The Low watt option for maximum energy savings. With a ballast factor of .77, the L line is the most energy efficient choice. It provides adequate illumination for most applications. For 1, 2, 3, and 4 T8 lamps in 2', 3', and 4' lengths.

ULTRAMAX[®] N
High-Efficiency Electronic Ballast

The Normal light option balances efficiency and illumination. The most-used type of ballast, the N line saves energy without sacrificing lumens. A ballast factor of .87 meets most application needs. For 1, 2, 3, and 4 T8 lamps in 2', 3', 4', and 8' lengths.

ULTRAMAX[®] N+
High-Efficiency Electronic Ballast

The Normal-High light option at a 1.0 ballast factor is a perfect balance between efficiency and high light output. The N+ line is designed for high efficient high bay fixtures that use high reflectance materials to get more utilized light resulting in less watts needed. N+ also works perfectly when delamping standard F32T8 4 or 3 lamp N fixtures to 3 or 2 lamp High Lumen F32T8 N+ fixtures..

ULTRAMAX[®] H
High-Efficiency Electronic Ballast

The choice for High light output. With a ballast factor of 1.18, UltraMax[®] H delivers the most lumens for maximum light or when you want more savings using fewer lamps. This is the first high-efficiency high-light output line for 2, 3 .and 4' T8 lamps.

<p>Safety</p> <ul style="list-style-type: none"> No PCBs UL Listed UL 55C (131F) Max Ambient Rating Class R Type 1 Type CC Type HL (Hazardous Location) 	<p>Application Information</p> <ul style="list-style-type: none"> Minimum Starting F32T8 <ul style="list-style-type: none"> Temperature: -22°F, -30°C Sound Rated A Remote Mounting F32T8: <ul style="list-style-type: none"> 18' maximum lead length, 18 AWG Reduced wattage lamps 10' High Frequency Lamp Operation: Above 70 kHz 	<p>Physical Parameters (all ballasts except the below)</p> <table border="0"> <tr> <td>Length:</td> <td>9.50 in.</td> <td></td> </tr> <tr> <td>Width:</td> <td>1.30 in.</td> <td></td> </tr> <tr> <td>Height:</td> <td>1.2 in.</td> <td></td> </tr> <tr> <td>Weight:</td> <td>1.06 lbs.</td> <td></td> </tr> <tr> <td></td> <td>4H</td> <td>6H</td> </tr> <tr> <td>Length:</td> <td>9.50"</td> <td>11.7"</td> </tr> <tr> <td>Width:</td> <td>1.70"</td> <td>1.70"</td> </tr> <tr> <td>Height:</td> <td>1.20"</td> <td>1.20"</td> </tr> <tr> <td>Weight:</td> <td>1.4 lbs.</td> <td>2.0 lbs.</td> </tr> </table>	Length:	9.50 in.		Width:	1.30 in.		Height:	1.2 in.		Weight:	1.06 lbs.			4H	6H	Length:	9.50"	11.7"	Width:	1.70"	1.70"	Height:	1.20"	1.20"	Weight:	1.4 lbs.	2.0 lbs.
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For additional product and application information, please consult GE's Website: www.gelighting.com

GE Lighting



High Efficiency Instant Start Ballasts



Now Available
UltraMax[®] 6H Ballast
Extreme 95% Efficiency

Breakthrough Technology That Dramatically Improves Efficiency, Simplifies Installation and Delivers Optimal Lamp Performance



2010 Enhanced Performance Features





GE revolutionizes lighting again with new, breakthrough technology.

In the GE labs, our engineers have developed a breed of ballasts to make lighting systems that save more energy, are more adaptable, and deliver optimal lamp performance.

There's more to Ultra



The innovative, patented technology in our UltraMax[®] electronic ballasts exceeds expectations.



Multi-Voltage technology means single UltraMax[®] model handles voltage from 120 through 277.

UltraMax[®] Ballasts can virtually "read" the incoming voltage and adapt automatically to any voltage from 108V to 305V.

The benefits of Multi-Voltage Control (MVC) are obvious:

- Fewer models handle more jobs. Eliminating inventory hassles
- MVC simplifies installation and eliminates guesswork at the job site.
- MVC compensates for incoming voltage fluctuations or variations from unreliable power.



GE's UltraMax[®] is compliant with UL 1598 with UL Type CC Anti-Arc Rating

UL 1598 includes a requirement for fluorescent luminaires with instant start ballasts and bi-pin lamp-holders to use a UL Type CC anti-arcing ballast or lamp-holders marked with a higher temperature rated Circle "I" construction and marking. Lighting fixture sockets can melt, crack and deform, creating an unsafe condition if an electric arc develops between a fluorescent lamp holder contact and a mis-seated or bent pin fluorescent lamp. Instant start ballasts that are not UL Type CC rated have a high open circuit voltage for starting and may create an unsafe arc if the lamp is not seated properly.

High efficiency delivers over 40% energy savings.

All UltraMax[®] ballasts exceed the NEMA Premium[®] minimum efficiency requirements. Systems combining UltraMax[®] electronic ballasts and T8 energy saving lamps deliver over 40% energy savings over standard T12 systems. Since energy costs are typically 80% of the overall cost of light, a more efficient system pays for itself in a short time and provide an excellent return on investment. Lamp frequency greater than 70kHz ensures no IR or anti-theft device interference.



UltraMax[®] is ultra lamp friendly.

With an industry low lamp current crest factor (LCCF) of 1.4, UltraMax[®] ensures optimal lamp operation and maximum lamp life, which can save on lamp and maintenance costs and ensures GE's Ultra System limited warranty.

-22F Minimum Starting Temperature.

Cold temperature starting performance with standard T8 lamps.

UL 55C (131F) Ambient Rating.

GE's UltraMax[®]'s patented high temperature protection circuit ensures ballasts run cool in high temperatures. UltraMax[®] is one of the only electronic T8 ballasts that is UL Listed for operation up to 55C ambient environments.

Anti-Striation Control for better light quality, with no striations.

UltraMax[®]'s patented Anti-Striation Control circuit eliminates lamp striations as opposed to reducing striations that other ballasts claim with striation control. This advanced technology eliminates the maintenance issues caused by striating lamps, often referred to as spiraling or swirling. This provides a flicker- and worry-free environment.

Fully parallel independent lamp operation makes systems easier to maintain

If one lamp fails, all the others in the system stay lit.



UltraMax[®] ballasts are Ultra Cool.

UltraMax[®]'s high efficiency design results in ultra-cool operation that can provide additional AC energy savings, especially during peak demand periods. Combine GE's Ultra ballasts with cool running fixtures to achieve maximum system performance in hot temperatures. GE provides the Ultra Cool[™] system certification with high grade fixture systems which means a 5 year 55C max ambient warranty.



A big idea in a small package.

The UltraMax[®] housing has a small, low profile and is lightweight. UltraMax[®] 1 and 2 lamp L and N ballasts are in a new mini 1.3" wide housing for easy handling. UltraMax[®] 4H has been reduced in size to 9.5 x 1.7 x 1.2" and is greater than 7" smaller than other instant start 4H ballasts. That can be a big help in retrofits. It also means fixture designs can be more compact and streamlined.

Every unit is tested and proven before it's shipped.

GE does 100% burn-in on every UltraMax[®] ballast; using our extreme open/short test, which simulates undesirable and harsh-use situations, so you are assured of a system you can rely on right out of the box.

GE Six Sigma quality backed by a full 5-year ballast limited warranty.

UltraMax[®] ballasts are designed by GE's expert engineers and custom-manufactured to our exacting. Six Sigma specifications, all backed by a 5-year limited warranty. And, when used with GE T8 lamps you get our Ultra System limited warranty. (See gelighting.com system warranty page for details).

System Performance Comparisons

2-Lamp System Performance 4' Fluorescent (4-lamp performance approx 2x 2-lamp system)

	Electromagnetic E.S.	Standard - N	UltraMax - L	UltraMax - N	UltraMax N+	UltraMax - H
Watt-Miser T12CW	Watts: 74 BF: 0.9 Light: 100% RLPW: 100% LPW: 55					
F32T8 & F32T8/HL SPX	Watts: 69 BF: 0.88 Light: 120% RLPW: 129% LPW: 71	58 0.88 120% 153% 85	48 0.77 105% 162% 90	53 0.87 119% 166% 92	61 1.0 136% 163% 90	73 1.15 157% 159% 88
F32T8/WM SP	Watts: Not Recommended BF: 0.88 Light: 115% RLPW: 157% LPW: 87	54 0.88 115% 157% 87	46 0.77 100% 161% 90	52 0.87 113% 161% 90	58 1.0 130% 166% 92	70 1.15 150% 158% 88
F28T8/UMX UltraMax System SP	Watts: Not Recommended BF: 0.77 Light: 97% RLPW: 167% LPW: 93	Not Recommended	43 0.77 97% 167% 93	48 0.87 110% 169% 94	54 1.0 126% 173% 96	66 1.15 145% 162% 90

3-Lamp System Performance 4' Fluorescent

	Electromagnetic E.S.	Standard - N	UltraMax - L	UltraMax - N	UltraMax N+	UltraMax - H
Watt-Miser T12CW	Watts: 117 BF: 0.91 Light: 100% RLPW: 100% LPW: 53					
F32T8 & F32T8/HL SPX	Watts: 105 BF: 0.88 Light: 180% RLPW: 127% LPW: 70	87 0.88 119% 160% 85	71 0.77 104% 171% 91	80 0.87 117% 172% 91	90 1.0 135% 175% 93	104 1.18 155% 175% 93
F32T8/WM SP	Watts: Not Recommended BF: 0.88 Light: 113% RLPW: 164% LPW: 87	81 0.88 113% 164% 87	68 0.77 99% 171% 91	76 0.87 112% 173% 92	86 1.0 129% 175% 93	100 1.18 148% 173% 92
F28T8/UMX UltraMax System SP	Watts: Not Recommended BF: 0.77 Light: 96% RLPW: 178% LPW: 95	Recommended	63 0.77 96% 178% 95	70 0.87 108% 181% 96	82 1.0 125% 178% 95	94 1.18 143% 178% 95

Transforming the Power of Light[™]

For more information, visit www.gelighting.com