





## 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**

**M** Multi-Voltage Control  
**A** Arc-Guard Protection  
**X** Xtreme Efficiency

The innovative, patented technology in our UltraMax<sup>®</sup> electronic ballasts exceeds expectations.



### Multi-Voltage technology means single UltraMax<sup>®</sup> model handles voltage from 120 through 277.

UltraMax<sup>®</sup> 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.



Multi-Voltage Control

### GE's UltraMax<sup>®</sup> line is the only full line of T8 ballasts with a UL Type CC Anti-Arc Rating

UL Type CC Rating is a stringent designation of protection against arcing in electrical devices. GE's Arc-Guard design eliminates the damaging effects arcing can have on lamps, ballasts and sockets.

### High efficiency delivers over 40% energy savings.

All UltraMax<sup>®</sup> ballasts exceed the NEMA Premium<sup>®</sup> minimum efficiency requirements. Systems combining UltraMax<sup>®</sup> 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<sup>®</sup> is ultra lamp friendly.

With an industry low lamp current crest factor (LCCF) of 1.4, UltraMax<sup>®</sup> 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 Ambient Rating.

GE's UltraMax<sup>®</sup>'s patented high temperature protection circuit ensures ballasts run cool in high temperatures. UltraMax<sup>®</sup> is one of the only electronic T8 ballasts that pass UL's stringent high temperature testing requirements for safe operation up to 55C ambient environments.

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

UltraMax<sup>®</sup>'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 system easier to maintain



### UltraMax<sup>®</sup> ballasts are Ultra Cool.

UltraMax<sup>®</sup>'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<sup>™</sup> 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<sup>®</sup> housing has a small, low profile and is lightweight. UltraMax<sup>®</sup> 1 and 2 lamp L and N ballasts are in a new mini 1.3" wide housing for easy handling. UltraMax<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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% 163% 92	62 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	60 1.0 130% 161% 89	70 1.15 150% 158% 88
F28T8/UMX UltraMax System SP	Watts: Not Recommended BF: 0.77 Light: 97% RLPW: 163% LPW: 90	Not Recommended	44 0.77 97% 163% 90	48 0.87 110% 169% 94	56 1.0 126% 166% 92	65 1.15 145% 165% 91

### 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	72 0.77 104% 169% 90	80 0.87 117% 172% 91	94 1.0 135% 168% 89	109 1.15 155% 167% 89
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	77 0.87 112% 170% 91	90 1.0 129% 168% 89	104 1.15 148% 167% 89
F28T8/UMX UltraMax System SP	Watts: Not Recommended BF: 0.77 Light: 96% RLPW: 173% LPW: 92	Recommended	65 0.77 96% 173% 92	71 0.87 108% 179% 95	83 1.0 125% 176% 93	96 1.15 143% 175% 93

Transforming the Power of Light<sup>™</sup>

For more information, visit [www.gelighting.com](http://www.gelighting.com)