



data sheet:
**Metrolight Smart Electronic
Ballast for HID™**
20/39 Watt

Metrolight Smart Electronic Ballasts for HID™ 20 watt and 39 watt lighting systems deliver spectacular light that complements high-end lighting design and atmosphere creation requirements. They deliver light and color consistency that are ideal for indoor environments such as high-end retail stores, hotels, display lighting, and showcases. The Smart Electronic Ballasts for HID™ operate on a full range of lamps and perform effectively and consistently, providing excellent lumen stability, extending lamp life and dramatically reducing the frequency of lamp replacement. In addition, they reduce energy consumption and deliver the highest levels of control and performance. The software-embedded Smart Electronic Ballasts for HID™ systems eliminate the need for additional hardware components improving the efficiency, reliability, size, and cost of the ballast.



Superior Technology Greater Savings

With Metrolight, you get the benefit of great energy savings plus improved color temperature providing a softer, more comfortable light, and greater performance regardless of ambient temperature. Metrolight 20 watt and 39 watt HID Electronic Ballasts minimize lumen degradation caused by lamp wall blackening, reduce maintenance costs, and deliver greater color uniformity between lamps.

Features	Benefits
The most compact dimensions in the industry	Allowing for elegant applications; ability to integrate into any space
Microprocessor-controlled for digital precision and reliability	Extends lamp life; greater efficiency and efficacy
Micro-Start™ digitally controlled ignition	Lumen consistency; color consistency; Reduces lamp electrodes deterioration causing the "wall blackening" effect; longer lamp life Improved Lumen maintenance – longer lamp life
Universal input voltage: 120 volts through 277 volts	One ballast covers all applications
Full range dimming (optional)	Additional 50% energy savings

Operating Specifications

The Metrolight Smart Electronic Ballast is designed to suit most lighting solutions. This section lists the Smart Ballast's operating specifications, its input and output characteristics and its built-in protections.

Dimensions (LxWxH)	Dimming version: 5.00"x1.85"x1.25" / 125.5x47.1x32mm Non-Dimming version: 4.4"x1.85"x1.25" / 112.40x47.1x32mm
Weight	0.46 lb / 210g
Operating temperature range	-25°C to +65°C -13°F to 149°F
Maximum case temperature (Tc)	90°C
EMC	FCC Title 47 Part 18 C (non-consumer) / EN61547
Regulation	UL Listed  

Input Specifications

Input values for power and current are dependent on the lamp wattage. Other input values apply across all Smart Ballasts.

Lamp Power, Voltage and Current Specifications

39W lamp		
	@ 208V, 230V, 277V	@ 120V
Input Power	44.0W	45.0W
Power Factor (at nominal conditions and full power)	>0.95	>0.95

20W lamp		
	@ 208V, 230V, 277V	@ 120V
Input Power	23.0W	24.0W
Power Factor (at nominal conditions and full power)	>0.90	>0.90

General Input Specifications

Voltage	120 – 277VAC (+10% to -15%)
Continuous full range dimming	50% – 100% of full power

Protections

Self-protection mechanisms:

- In the event of a short circuit, or open circuit
- If the lamp fails to light
- At the end of the lamp's life
- Input current protection by internal fuse

Heat Management:

If the Tc rises beyond 93°C during use, the Smart Electronic Ballast will switch itself off.

About Metrolight

Metrolight is a leading supplier of Smart Electronic Ballasts for High Intensity Discharge HID™ lighting systems. Metrolight's patented technology saves retailers, sporting venues, churches, warehouses, manufacturers and municipal governments up to 65% on their energy bills while delivering spectacular light lasting two times longer than competitors. Metrolight provides the broadest offering of Smart Electronic Ballasts, with multi-voltage products ranging from 20 watts up to 1000 watts and Remote Monitoring and Control Systems, designed with the 21st century in mind: digital, Internet-connected, energy-efficient and dimmable.

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