



data sheet:
Metrolight Smart Electronic Ballast for HID™
 50/70/100/150 Watt

Metrolight Smart Electronic Ballasts for HID™ 50 watt through 150 watt lighting systems are ideal for a large range of applications. Providing both appealing energy saving solutions and a consistent level of light and color, the Smart Electronic Ballasts for HID™ are perfect for indoor and outdoor environments, including larger retail stores, hotel lobbies, down lights, street lights, and large showcases. The Smart Electronic Ballasts for HID™ lighting systems reduce energy consumption and deliver the highest levels of control and performance. The software embedded within the system eliminates the need for additional hardware components, improving the efficiency, reliability, size, and cost of the ballast. They perform effectively and consistently, providing excellent lumen stability, extending lamp life and dramatically reducing the frequency of lamp replacement.



Superior Technology Greater Savings

With Metrolight, you get all the energy savings of fluorescent systems plus all the benefits of HID, including greater color temperature, a softer, more comfortable light, and improved performance regardless of ambient temperature. Metrolight 50 watt-150 watt HID Electronic Ballasts minimize lumen degradation caused by lamp wall blackening, reduce maintenance costs, and deliver greater color uniformity between lamps. The dimming feature adds a significant energy saving advantage. Dimming can be controlled in accordance to human activity, daylight harvesting regimes, and interactive operation mode lighting systems.

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, low components count, higher reliability, compact size
Micro-Start™ digitally controlled ignition	Lumen consistency; color consistency; virtually eliminate lamp electrodes and "wall blackening"; longer lamp life Lumen maintenance
Full range dimming (optional)	Energy saving
Sodium lamp hot re-strike	Instant relighting after power cuts or turn-off
Universal input voltage: 120 volts to 277 volts	One ballast covers all applications

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)	50W, 70W, 100W	4.70"x3.03"x1.25" / 119.3x77x31.4mm
	150W	4.646"x3.37"x1.497" / 118x85.6x38mm
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

150W lamp			100W lamp		
	@208V, 230V, 277V	@ 120V		@208V, 230V, 277V	@ 120V
Input Power	158W	160W	Input Power	108W	110W
Power Factor (at nominal conditions and full power)	>0.9	>0.98	Power Factor (at nominal conditions and full power)	>0.9	>0.98

70W lamp			50W lamp		
	@208V, 230V, 277V	@ 120V		@208V, 230V, 277V	@ 120V
Input Power	76W	78W	Input Power	56W	58W
Power Factor (at nominal conditions and full power)	>0.9	>0.98	Power Factor (at nominal conditions and full power)	>0.8	>0.98

General Input Specifications

Voltage	120 – 277VAC (+10% to -15%)
Continuous full range dimming	50% – 100% of full power, by dimmer, ambient sensor, light sensor or any other compatible sensor.

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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