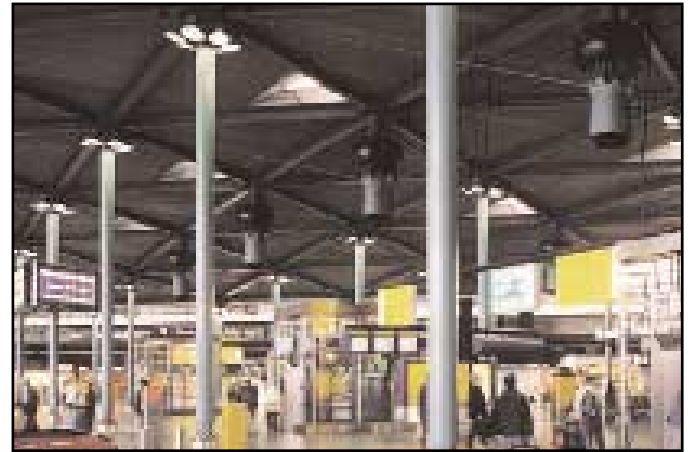


## Advance Enhances SmartMate Family of Ballasts for CFL Lamps with New Models for PL-H Lamp Technology



### Product Overview

Enhancing its exclusive line of SmartMate ballasts for compact fluorescent lamps, Advance announces the availability of a new ballast to support the PL-H (high wattage CFL) lamp technology.

SmartMate for PL-H ballasts support Philips exclusive new family of PL-H compact fluorescent lamps, which offer the benefits of long life (up to 20,000 hours), high lumen maintenance (86% at 5,000 hours) and amalgam technology. One PL-H ballast operates either (1) or (2) 60W, (1) 85W, or (1) 120W PL-H lamps and its maximum case temperature rating of 90°C allows for a flexible fixture design and application versatility. With a minimum starting temperature of -22°F/-30°C, PL-H ballasts are well suited for indoor and outdoor applications.

A compact design that promotes energy efficiency, PL-H represents a powerful alternative for fixture manufacturers and lighting designers weighing their standard compact fluorescent, HID and T5/HO options.

Advance's SmartMate for PL-H ballasts sport the exclusive SmartMate features, which include IntelliVolt™ technology (allowing ballasts to operate at any input voltage from 120 to 277 volts, 50/60Hz), dual entry, color-coded-connectors, and end-of-lamp-life protection.

### Design Highlights

- Programmed starting for extended lamp life in frequent switching applications.
- End-of-lamp-life protection to safely remove power from the lamp as it nears end of life.
- Cold starting to ensure proper functionality even in low temperature applications (-22°F/-30°C).
- Improved reliability due to precision control
- Flicker-free operation
- Auto-restart which eliminates the need to reset the power mains after lamp replacement.

### Applications

- Medium and high bay industrial and retail
- Canopy lighting
- Flood lighting
- Parking garages
- Gymnasiums
- Indirect wall washing
- Downlighting
- Outdoor architectural
- Post tops

# SmartMate Fluorescent Ballasts

## Ballast Specifications

### Section I - Physical Characteristics

1.1 The electronic ballast shall be furnished with poke-in wire trap connectors, color coded to ANSI standard C82.11.

### Section II - Performance Requirements

- 2.1 The electronic ballast shall be IntelliVolt™ and operate from a line voltage range of 108 – 305 volts, 50/60 Hz.
- 2.2 The electronic ballast input current shall have Total Harmonic Distortion (THD) of less than 10% when operated at the nominal line voltage (120V, 277V) with primary lamp(s).
- 2.3 The electronic ballast shall have a Power Factor greater than 96%.
- 2.4 The electronic ballast shall have a Programmed-Start type system.
- 2.5 The electronic ballast shall have a lamp end-of-life detection and shutdown circuit.
- 2.6 The electronic ballast shall be sound rated A.
- 2.7 The electronic ballast output frequency to the lamps shall be above 42kHz to minimize interference with infrared control systems, and eliminate visible flicker.
- 2.8 The electronic ballast shall meet ANSI C82.11, where applicable.
- 2.9 The electronic ballast shall withstand transients specified in ANSI C62.41, Location Category A3.

### Section III - Regulatory Requirements

- 3.1 The electronic ballast shall meet the requirements of the Federal Communications Commission rules and regulations, Title 47 CFR part 18, for Non-Consumer equipment.
- 3.2 The electronic ballast shall comply with all applicable state and federal efficiency standards.
- 3.3 The electronic ballast shall be Underwriters Laboratories (UL) Listed (Class P) and CSA Certified where applicable.
- 3.4 The electronic ballast shall be Underwriters Laboratories (UL) rated for use in air handling spaces.

### Section IV - Other

- 4.1 The electronic ballast shall not contain Polychlorinated Biphenyl (PCB's).
- 4.2 The electronic ballast shall carry a five-year warranty from the date of manufacture for operation at a case temperature of 75°C or less. When operated at a case temperature between 75°C and 90°C, the warranty shall be three years from the date of manufacture.
- 4.3 The manufacturer shall have a fifteen-year history of producing electronic ballasts for the North American market.
- 4.4 The electronic ballast shall be produced in a factory certified to ISO 9002 Quality System Standards.

Lamp Data		Min. Starting Temp. (F/C)	Input Volts	Catalog Number	Certifications		Line Current (Amps)	Input Power ANSI (Watts)	Ballast Factor	Max. THD %	Min. Power Factor	Dim./ Wiring Diagram
Number	Watts				UL	CSA						
<b>PL-H 60W/4P</b>												
1	60	-22/-30	120	ICF-1H120-M4-XX*	✓	✓	0.59	70	1.00	15	0.97	Size 4
			230				0.31					
			277				0.26					
2	60	-22/-30	120	ICF-1H120-M4-XX*	✓	✓	1.16	137	1.00	10	0.98	Size 4
			230				0.60					
			277				0.50					
<b>PL-H 85W/4P</b>												
1	85	-22/-30	120	ICF-1H120-M4-XX*	✓	✓	0.82	98	1.00	10	0.98	Size 4
			230				0.43					
			277				0.36					
<b>PL-H 120W/4P</b>												
1	120	-22/-30	120	ICF-1H120-M4-XX*	✓	✓	1.16	137	1.00	10	0.98	Size 4
			230				0.60					
			277				0.50					

\* XX, -BS or -LD

## Wiring Diagrams / Dimensions

