



# Powerful punch in a small package

## Philips Advance e-Vision electronic ballasts for 150W metal halide lamps

e-Vision electronic ballasts for 150W metal halide lamps offer sustainable design and represent a compact option for downlighting and accent lighting applications in a wide range of retail, institutional, office and outdoor settings. Energy-efficient eHID technology lasts up to three times longer than halogen and up to five times longer than incandescent alternatives. With electronic circuitry, these ballasts also drive superior lamp wattage regulation — optimizing color quality over life, delivering consistency and reducing lamp-to-lamp variations.

### Superior lamp wattage regulation

- Optimizes lamp color quality over life
- Minimizes lamp-to-lamp variations
- Minimizes re-lamping requirements, reducing product and maintenance costs

### IntelliVolt multiple-voltage technology (operates 120 to 277 V, 50/60 Hz)

- Enhances accuracy and ease of ordering, reducing stocking/SKU requirements

### All metallic enclosures

- Superior heat transfer relative to plastic, enhancing safety and durability

### Enhanced safety features include automatic lamp power control, lamp monitoring and end-of-life (EOL) detection

- Reduction of lamp overpowering and/or thermal stress by shutting down should the lamp behave erratically or fail to ignite
- EOL detection removes power from lamps when they reach end-of-life, enhancing safety and preventing lamp cycling

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## e-Vision Electronic Ballasts

Lamp Data		Input Volts	Catalog Number	Certifications			Line Current (Amps)	Input Power ANSI (Watts)	Max. Case Temp.	Wiring Diag. Fig.	Weight (lb.)	Max. Distance to Lamp (ft.)	
Number	Watts			E	UL	SA							
<b>150W Lamp, ANSI Code M102 or M142, Minimum Starting Temp. -20° C/-4° F</b>													
1	150	120	IMH-150-H-LF <sup>1</sup>	✓	✓	✓	1.4	165	85°C	3	H	1.9	5
		277	IMH-150-H-BLS <sup>1</sup>	✓	✓	✓	0.6	161	85°C	3	H	1.9	5

### Ballast Case Temperature Measurement Location

Case temperature measurement location differs with each ballast model and are designated on the individual ballast labels. Consult ballast labels and ballast specification sheets for measurement locations.

### Installation Notes

1. Red lead must be connected to center terminal of lamp (for Edison screw base lamps). Do not connect red or blue lead to neutral or ground.
2. Use an appropriately rated lamp holder.
3. Maximum ballast-to-lamp distance is provided in this bulletin as well as on each ballast's data sheet and label. For maximum lamp starting performance, this specification should followed using typical wiring methods and materials.
4. Power mains must be cycled off and then on to reset ballast after failed lamps are replaced.

### Dimensions

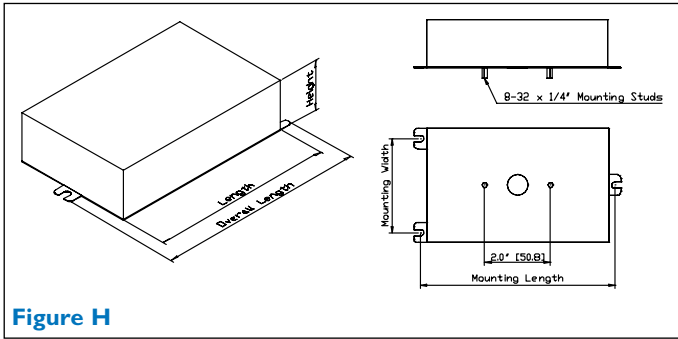
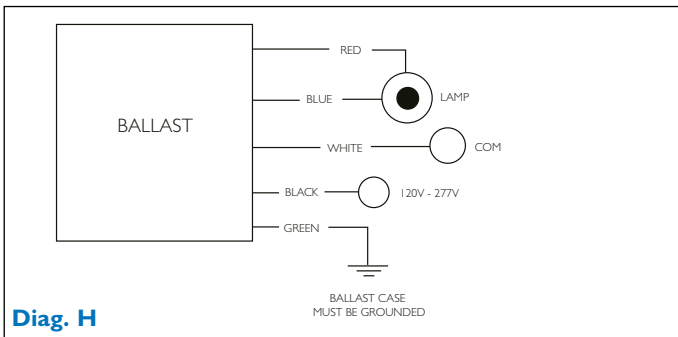


Figure H

Case Figure	Overall Length	Case Length	Case Width	Case Height	Mounting Length	Mounting Width
E	161mm [6.3"]	144mm [5.7"]	92mm [3.6"]	38mm [1.5"]	152mm [6.0"]	73mm [2.9"]

### Wiring Diagrams



Diag. H

# Ballast Specification for e-Vision

## Section I - Physical Characteristics

- 1.0 The electronic ballast shall be furnished with integral, color-coded leads.

## Section II - Performance Requirements

- 2.0 The electronic ballast shall operate from a nominal line voltage range of 120-277V, +/-10%, 50/60 Hz.
- 2.1 The electronic ballast input current shall have Total Harmonic Distortion (THD) of less than 15%.
- 2.2 The electronic ballast shall have a Power Factor greater than 90%.
- 2.3 The electronic ballast shall have a lamp end-of-life detection and shutdown circuit.
- 2.4 The electronic ballast shall be Sound Rated A.
- 2.5 The electronic ballast output frequency to the lamps shall be less than 200 Hz to prevent acoustic resonance inside the lamp arc tube and to minimize visible flicker.
- 2.6 The electronic ballast shall provide a "Lamp Current Crest Factor" of less than 1.5.
- 2.7 The electronic ballast shall be thermally protected to shut off when operating temperatures reach unacceptable levels.

## Section III - Regulatory Requirements

- 3.0 The electronic ballast shall meet the requirements of the Federal Communications Commission rules and regulations, Title 47 CFR part 18, for Non-Consumer equipment.
- 3.1 The electronic ballast shall be Underwriters Laboratories (UL) Listed and CSA Certified where applicable.
- 3.2 The ballast shall comply with RoHS.

## Section IV - Other

- 4.0 The electronic ballast shall not contain Polychlorinated Biphenyl (PCB's).
- 4.1 The electronic ballast shall carry a three-year warranty from the date of manufacture for operation at marked maximum case temperature or less.
- 4.2 The manufacturer shall have a twenty-five year history of producing HID lamp ballasts for the North American market.
- 4.3 The electronic ballast shall be produced in a factory certified to ISO 9002 Quality System Standards.



† Restrictions on Hazardous Substances (RoHS) is a European directive (2002/95/EC) designed to limit the content of 6 substances [lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), and polybrominated diphenyl ethers (PBDE)] in electrical and electrical products. For products used in North America, compliance with RoHS is voluntary and self-certified.

‡ "Circle E" denotes EISA compliance



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