

# Electronic HID Ballast

# 120 v / 220 v



70  
watt

50  
watt

35  
watt

- Certified to UL Standards
- IP addressable 2-way communication
- Provides better lumen output
- More than double the lamp life
- Cool, quiet operation
- Eco-Friendly (Reduced energy cost by up to 75%)
- Proactive maintenance capability reducing operating costs
- Dimming capabilities with optimal light output

## Ignition

Eco-Shift Power technology incorporates a sophisticated micro-controller based technology which optimally balances current with lamp gas properties. The result of this gentle strike ignition is the elimination of acoustic resonance, prolonged lamp life, and greater lumen maintenance. Additionally, hot restrikes are typically achieved in less than three minutes.

## Micro-controller Based Technology

Each Eco-Shift Power ballast is protected and enhanced by advanced microprocessor technology. Our ballast protection is the most advanced in the industry. Multiple wattage ballasts can be automatically dimmed by the microprocessor through intelligent sensors for motion and light. This capability permits flexible lighting design to achieve a maximum balance between variable lumen output and energy conservation. Our ballasts are uniquely addressable for computer based control applications which afford the user the ability to efficiently manage complex lighting grids.

# Specifications

## Input Voltage

- Main Voltage 120V (+/- 10%)
- Step down required for 347v
- Main current consumption 50 watt-420 mA/70 watt-590 mA
- Main current frequency 50/60 Hz
- Ballast Factor .994 (electromagnetic is typically .86)
- Power Factor Correction 0.986%
- Efficiency 97%
- Total Harmonic Distortion 3.9%
- Crest Factor 1.43
- Radio interference suppressed by protection filters
- The most advanced protection in the industry
- Indefinite out of socket lamp protection with timing
- End of lamp life shut off
- Indefinite short circuit protection
- Re-strike protection with preprogram conditions

## Output

- Output frequency 200Hz
- No acoustic resonance
- Microprocessor control provides constant current and constant voltage creating a constant wattage regardless of the type of lamp or lamp manufacturer
- Microprocessor circuit recognizes and determines the lamp type and adjusts the ballast automatically

## Ignition Conditions

- The ballast provides ignition at lamp contact
- Pre program striking for end of life or out of socket lamp
- Lamp type recognition by ignition circuit

## Mechanical Constraints

- Anodized anti-corrosive aluminum casing
- Indifferently operation position of the ballast
- The ballast case is supplied with earth contact
- The PCB's are protected against corrosive contamination
- Ballasts PCB's are fully potted for protection against humidity, saline environment or substances harmful to the electronic components

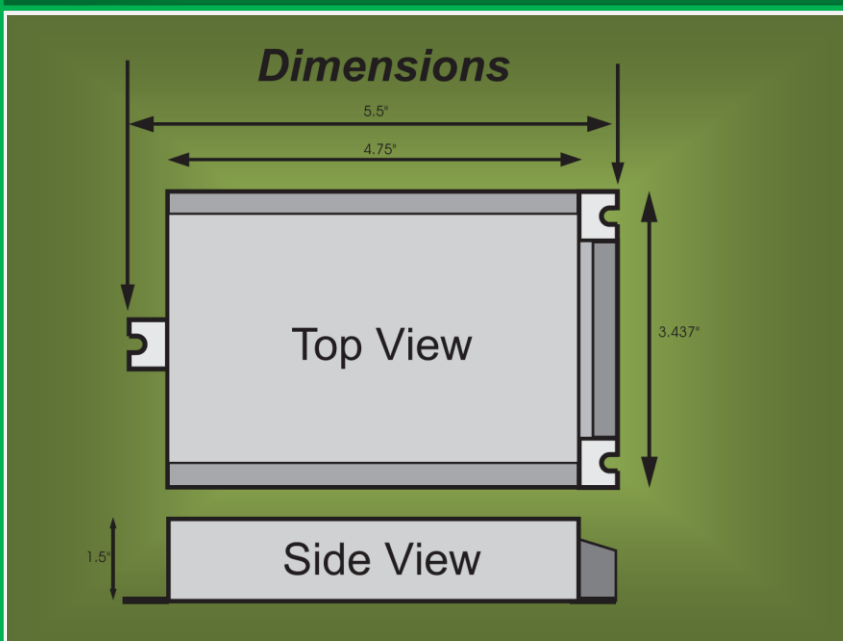
## Ballast Reliability

- Average lifetime 10 years
- Ballast temperature at all time +28C @ +22C ambient temperature
- Air Temperature -40C - +50C
- Top limit air temperature +85C

## Ballast Safety

- Case temperature automatic cut off at +85C
- Open and short circuit output protection logic control

## Catalogue No.



**ECO-SHIFT  
POWER** CORP.

125 McGovern Drive, Unit 12  
Cambridge, Ontario  
N3H 4R7

**P** 519.341.5268

**F** 519.576.3169

**E** [info@eco-shiftpower.com](mailto:info@eco-shiftpower.com)