

# Electronic Metal Halide Ballast for 150 Watt Lamps

**DRIVING** the Future of Luminaires!

**NEW! Ideal Features for Recessed Down Lights**

- Short “Slim” Shape to easily mount on J-box
- 39% Smaller than Industry Standard Case
- Multi-Voltage Input (from 120V up to 277V)
- Thermally Protected



Shown with side leads

### Features & Benefits:

- This integrated unit replaces the ballast, capacitor and the ignitor of magnetic core & coil systems or the very heavy HID F-can magnetic ballasts.
- Excellent line regulations;  $\pm 0.5\%$  output variation with  $\pm 10\%$  changes in line voltage.
- Reduction in visual flicker & increased lamp life.
- Increased reliability and safety with lamp “Turn-off Function”: (Resets by cycling line voltage “off-then-on”)
- Light weight (<2 lbs. vs. up to 8lbs. for magnetic)
- Energy Savings: Up to 15% vs. magnetic.
- Eliminates long term lamp cycling. No need to wait for lamps to cycle to identify replacement.
- Sound Rated “A” for indoor applications.
- Thermally protected/ Transient protected.

### Lamp Maintenance Notice:

- To start new lamps or replaced lamps, turn off the ballast input voltage for 10 seconds then back on.
- If lamp or wiring is defective the ballast will “shut down” in 1.5 to 30 minutes depending on the fault condition.


### Specifications:

Lamps <sup>1</sup>	150W Metal Halide M102 or M142 or Equivalent Ceramic Lamp
Input Voltage	Universal 120-277V 50/60 hertz
Power Factor	High
Input Power	167W
Input Current (Maximum)	120V: 1.40A / 277V: 0.6A
Harmonic Distortion	<15%
Lamp Frequency	170 Hertz Square-Wave
EMI/ RFI	Complies with FCC 18C, non consumer limits
Lamp Current Crest Factor	1.4 Typical
Safety	UL Outdoor Type 1, Suitable for Recessed Use
Thermal Protection	Functions at approximately 100°C hot spot
Warranty <sup>2</sup>	5 years-max. case temperature <70°C; 3 years-max. case temperature <75°C
Minimum Ballast Temp.	-15° C/ +5° F
Maximum Mounting Distance	See Remote Wiring Section on Page 2

**Note 1:** Consult lamp manufacturers for lamp compatibility approval.

**Note 2:** Warranty is based on maximum operating time of 4000 hours per year. For additional operating hours consult with Aromat Application Engineering.

### Product Summary

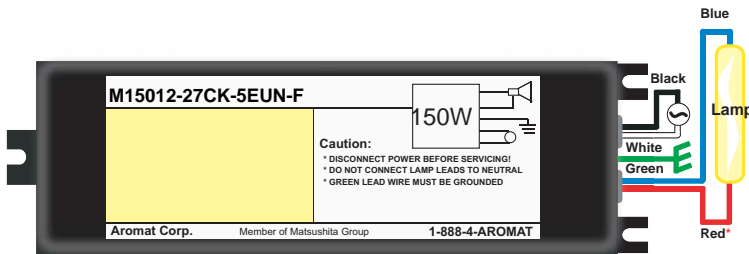
LAMP	<b>150W Metal Halide M102 or M142 or Equivalent Ceramic Lamp</b>	
Input Volts	Universal 120-277V 50/60 hertz	
Model Number	<b>M15012-27CK-5EUN-F</b>	<b>M15012-27CK-5EUN-J</b>
Mounting/ Lead Exit	Feet with Side Leads Exit	Studs with Bottom Lead Exits
Safety	UL Listed:  US	
Lamp Holder	Minimum 4KV Pulse Rated	

Aromat reserves the right to change any of the above performance characteristics without notice.

For More Information, call: **1-888-4-AROMAT**  
Visit our Web Site: **www.aromat.com**

**Aromat Corporation**  
(Matsushita Electric Works, America)

## Wiring Diagram:

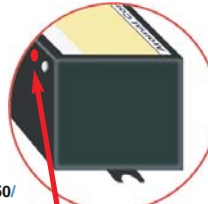
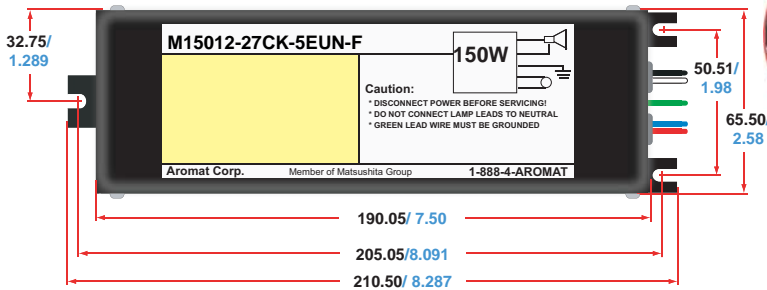


\*To Center Contact on Edison Base Lampholder

## Safety Instructions:

- Always disconnect power to the entire fixture before installation and/or removal of ballasts or controls.
- Ballast green wire must be grounded.
- Install per national and local electrical codes.
- Dispose of any replaced ballasts and lamps properly.
- **DO NOT** connect lamp leads to ground or neutral.

## Dimensions: Millimeters / Inches

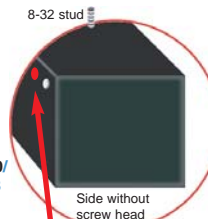
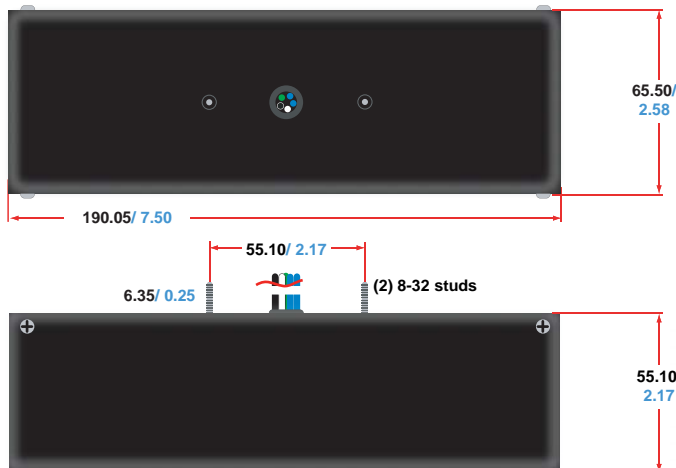


Hot Spot Testing Point - 1/4" from screw head

## NOTES

1. For additional installation and operational information, please refer to: *Aromat Application Guidelines*.
2. Dimensional Tolerances:
  - Case:  $\pm 1.0\text{mm} / \pm 0.039"$
  - Lead Wires:  $+50\text{mm} / +2"$  or  $-30\text{mm} / -1"$
  - Lead Length: Nominal 10": "F" Models  
Nominal 7": "J" Model
  - Slot width on "F" mounting tabs: 5.0mm / 0.20"
3. Remote Wiring Guidelines:
  - Each lamp's lead wires must be run in a separate conduit from the input power leads to achieve good EMI performance and maximum remote capabilities.
  - Individual lamp lead wires must be used for external fixture extensions using wire types SF-2 (Equivalent to SEWF-2 or 3071) or SFF-2 (Equivalent to SEWF-2 or 3070) or alternately, if approved by Aromat, high voltage fixture wire with a 18 AWG conductor and a 1000VAC minimum voltage rating. Temperature rating is especially critical if the lamp lead extension wires are directly connected to lamp-holder terminals.
  - Maximum Remote Distances: 15 feet in a minimum 1/2" internal diameter conduit, pipe or flexible conduit. For longer remote mounting distances, consult with Aromat.
  - Using Service Power cords (types SJ, SV, SO, etc.) or metal clad cable assemblies for lamp lead extension wire are **NOT** recommended as they are not compatible with the above characteristics, can cause starting problems and shall not be used unless Aromat gives written approval.

## M15012-27CK-5EUN-J



Hot Spot Testing Point - 1/4" from screw head

