

# Magnetic Ballast

## Simplified Solutions

OSRAM SYLVANIA is focused on helping our customers understand our products, and to simplifying their use and applications. SYLVANIA magnetic fluorescent product labels include an industry first cross-reference guide to help identify the proper ballast for replacing existing installed products. The line voltage is also clearly identified to ensure proper application, and our shipping carton labels are also color coded to indicate the voltage to help avoid misapplication even before the ballasts are out of the box.

SYLVANIA magnetic HID ballast descriptions are based on the corresponding lamp description to make lamp/ballast matching and identification easier.

All fluorescent and HID carton labels also identify the corresponding lamp/ballast matching to make proper product selection as clear and as simple as possible.

## Magnetic Ballasts

OSRAM SYLVANIA offers a wide range of magnetic ballast products to support our customers with SYLVANIA brand lighting products. This array of products will allow our customers a broad selection of magnetic ballasts to choose from to operate their SYLVANIA brand lamps.

- HID Magnetic SUPER 5 Kits
- Magnetic Fluorescent Sign Ballasts
- Pulse Start HID Ballasts
- F-Can HID Ballasts
- Indoor Enclosed HID Ballasts



## Magnetic Fluorescent Ballasts

High quality products for most general applications – i.e. T12, T9, T8, and T5 lamps.

## Magnetic Fluorescent Sign Ballasts

T12 high output magnetic ballasts for sign applications are designed to meet or exceed industry standards and requirements for the sign business.

## HID Magnetic Ballast Kits

Easy to use replacement kits for the range of metal halide, pulse start metal halide, high pressure sodium and mercury lamps. Kits include core and coil, capacitors and ignitors (where required), brackets and mounting hardware.

Our SUPER 5 HID Kits have 120, 208, 240, 277 and 480V input voltage taps to reduce the number of models in inventory.

## F-Can HID Ballasts

F-Can ballasts for indoor applications operate a range of metal halide, pulse start metal halide and high pressure sodium lamps with minimal noise.

## METALARC® Indoor Enclosed HID Ballasts

Indoor enclosed ballasts for indoor applications where remote mounting is required.



# DOE 2014 Rule Fluorescent Ballast

QUICKTRONIC® fluorescent ballasts meet requirements

The Department of Energy (DOE) 2014 ruling applies to fluorescent ballasts manufactured on or after November 14, 2014 that operate at an input voltage at or between 120 and 277 and operate at 60Hz line frequency. This rule also establishes a new ballast efficiency measurement metric known as Ballast Luminous Efficiency (BLE) as a measurement of lamp arc power. DOE 2014 requires ballasts to meet minimum performance criteria:

- Must be  $>.90$  power factor for commercial or  $>.50$  power factor for residential
- Residential ballasts must meet FCC 47 CFR part 18 consumer limits and be designed, labeled, and marketed only for use in residential applications
- Sign ballasts must meet UL Type 2 rating and be designed, labeled and marketed for use in outdoor signs

Exceptions to the rule:

- Dimming ballasts that dim to 50% or lower in output power
- Low frequency ballasts (magnetic) operating T8 lamps which are designed and labeled for EMI sensitive areas and are shipped in 10 or less packs
- Programmed rapid start ballasts that operate 4' bi-pin T8 lamps operating  $<140\text{mA}$



Currently more than 98% of QUICKTRONIC ballasts comply with the DOE 2014 rule. All models have been tested under the guidelines. Products that do not comply are being re-engineered. All future model designs will be designed to qualify for the DOE 2014 rule.



## MAGNETIC HID

Item Number	OSRAM SYLVANIA Description	Input Voltage (VAC)	Circuit Type	Input Power (Watts)	ADVANCE Catalog # <sup>8</sup>	Universal Lighting Technologies* Catalog # <sup>8</sup>	Venture Lighting Catalog # <sup>8</sup>	Howard Industries Catalog # <sup>8,9</sup>
<b>METALARC® METAL HALIDE PULSE START CORE &amp; COIL BALLAST KITS</b>								
<b>150W Metal Halide Pulse Start Lamp – ANSI Code M81</b>								
47229	M150/MULTI-KIT	120/208/ 240/277	HX-HPF	185	71A5490	M150MLTLC3D & M150MLTLC3D-500K	–	–
<b>175W Metal Halide Pulse Start Lamp – ANSI Code M137 or M152</b>								
47686	M175/MULTI-PS-KIT	120/208/ 240/277	CWA	208	71A5593 & 71A5593-001D	P175MLTAC3M & P175MLTAC3M-500K	V90D7210K	–
<b>200W Metal Halide Pulse Start Lamp – ANSI Code M136</b>								
47690	M200/MULTI-PS-KIT	120/208/ 240/277	CWA	232	71A5692 & 71A5692-001D	P200MLTAC3M & P200MLTAC3M-500K	V90D7310K	M020071C611
<b>250W Metal Halide Pulse Start Lamp – ANSI Code M138 or M153</b>								
47282	M250/SUPER5-PS-KIT	120/208/ 240/277/480	CWA	288	–	P250ML5AC4M	–	–
47112	M250/MULTI-PS-KIT	120/208/ 240/277	CWA	288	71A5792 & 71A5792-001D	P250MLTAC4M & P250MLTAC4M-500K	V90D8410K	M025071C611
<b>320W Metal Halide Pulse Start Lamp – ANSI Code M132 or M154</b>								
47676	M320/MULTI-PS-KIT	120/208/ 240/277	CWA	368	71A5892 & 71A5892-001D	P320MLTAC4M & P320MLTAC4M-500K	V90D7411K	M032071C611
<b>350W Metal Halide Pulse Start Lamp – ANSI Code M131</b>								
47695	M350/MULTI-PS-KIT	120/208/ 240/277	CWA	400	71A5993 & 71A5993-001D	P350MLTAC4M & P350MLTAC4M-500K	V90D7512K	M035071C611
<b>400W Metal Halide Pulse Start Lamp – ANSI Code M155 or M135</b>								
47400	M400/SUPER5-PS-KIT	120/208/ 240/277/480	CWA	452	–	P400ML5AC4M	–	–
47132	M400/MULTI-PS-KIT	120/208/ 240/277	CWA	452	71A6092 & 71A6092-001D	P400MLTAC4M & P400MLTAC4M-500K	V90D7612K	M040071C611
<b>750W Metal Halide Pulse Start Lamp – ANSI Code M149</b>								
47717	M750/MULTI-PS-KIT	120/208/ 240/277	CWA	818	71A64E2 <sup>6,7</sup>	P750MLTAC5M & P750MLTAC5M-500K	V90D7910K	–
47409	M750/120/277/347/480-PS-KIT	120/277/ 347/480	CWA	818	71A64F2T <sup>6,7</sup>	–	V90J7910K <sup>7</sup>	–
<b>1000W Metal Halide Pulse Start Lamp – ANSI Code M141</b>								
47417	M1000/120/277/347/480-PS-KIT	120/277/ 347/480	CWA	1080	71A65F3T <sup>6,7</sup>	–	V90J7810K <sup>7</sup>	–
<b>LUMALUX® HIGH PRESSURE SODIUM CORE &amp; COIL REACTOR BALLASTS</b>								
<b>50W High Pressure Sodium Lamp – ANSI Code S68</b>								
47274	LU50/120R	120	R-NPF	60	71A7807	1233-35U	–	–

*\*DISCLAIMER: This cross reference guide is intended as an aid for identifying comparable products as a convenience to the user. OSRAM SYLVANIA does not warrant or guarantee the accuracy or correctness of the content. Case sizes, wiring diagrams and performance specifications may vary, please refer to manufacturers specifications. Please refer to the OSRAM SYLVANIA catalog for verification of product specifications appropriate for the application. Information in this cross reference is subject to change at any time without prior notice. Please contact 1-800-LIGHTBULB or www.sylvania.com for additional information.*

Footnotes on page 218

All data shown is for primary lamp types only. Complete data is available in the QUICKTRONIC® Electronic Ballast Technology &amp; Specification Guide and at www.sylvania.com

216 OSRAM SYLVANIA National Customer Service and Sales Center 1-800-LIGHTBULB (1-800-544-4828) or www.sylvania.com

Specifications subject to change without notice.