Sylvania Quicktronic QTP MH

Electronic HID (eHID) ballasts are perfectly matched with Sylvania Metalarc® and Metalarc Powerball® Ceramic lamps to provide optimal system performance. This electronically controlled system delivers several advantages over conventional systems, including improved lumen maintenance and extended photometric life.

Key System Features

- Low frequency square wave
- Suitable for both quartz and ceramic lamps
- Constant power regulation
- Universal input voltage
- High power factor
- Low harmonic distortion
- Small size and lightweight
- UL, FCC
- End-of-lamp-life shut down
- Internal IDTP (Insulation Detection Thermal Protector)
- Quick 60+® warranty
- RoHS compliant
- Lead-free solder and manufacturing process

Sylvania Quicktronic QTP MH electronic HID (eHID) ballasts feature a state-of-the-art design to deliver performance levels unattainable with standard magnetic lighting systems. These ballasts operate Metalarc® and Metalarc Powerball® Ceramic lamps with exceptional features and benefits, listed below:

Unmatched Energy Efficiency:
- Ballasts provide up to 92% efficiency allowing maximum energy savings when compared to magnetic ballasts

New Smaller cases:
- Mini Slim and Mini Square ballasts are 50% smaller than the standard sized can
- New smaller sizes allow more flexible fixture designs and applications while maintaining the features and system advantages of the standard size ballast

Simple Installation:
- Installation is simplified by a single-piece ballasts that incorporate the ballast, capacitor, ignitor and mounting brackets of conventional systems

System Information

Sylvania Quicktronic QTP MH electronic HID (eHID) ballasts are perfectly matched with Sylvania Metalarc® and Metalarc Powerball® Ceramic lamps to provide optimal system performance. This electronically controlled system delivers several advantages over conventional systems, including improved lumen maintenance and extended photometric life.

Low frequency square-wave:
- Eliminates acoustic resonance issues typical with high-frequency waveforms (Acoustic resonance issues may cause visual flickering, lamp cycling, shortened lamp life, and in extreme cases may result in non-passive failure)
- Provides a robust approach with respect to acoustic stabilities and is immune to variation in lamp geometry, fill chemistry and mercury dose

Superior constant power regulation design:
- Helps yield consistent light output and color throughout the life of the lamp
- Provides constant light output during periods of fluctuating supply voltage

End-of-lamp-life shutdown:
- Prevents continuous starting after lamps extinguish which may cause permanent damage to the ballast

Internal IDTP (Insulation Detection Thermal Protector):
- Affords original equipment manufacturers (OEMs) to remove all external thermal protection devices
- Reduces wiring complexity and installation time (to maximize the benefits of IDTPs, the ballast must be properly installed - See “installation notes” for details)

Quick 60+® Warranty: Setting the standard for quality, Sylvania Quicktronic MH ballasts are covered by a Quick 60+ warranty, the first comprehensive system warranty in the industry

Application Information

Sylvania Quicktronic MH is ideally suited for:
- Track lighting
- Downlighting
- Landscape lighting
- Retail
- Hospitality
- Institutional
- Commercial

Lamp / Ballast Guide

<table>
<thead>
<tr>
<th>Lamp Type</th>
<th>Ballast Type</th>
<th>QTP 2x20MH/UNV</th>
<th>QTP 1x20MH/UNV SQ</th>
<th>C156</th>
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</thead>
<tbody>
<tr>
<td>QTP 1x39MH/UNV</td>
<td>QTP 2x39MH/UNV</td>
<td>QTP 1x39MH/UNV SQ</td>
<td>M130; C130</td>
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<td>QTP 1x100MH/UNV SQ</td>
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Sylvania Quicktronic QTP MH

See the world in a new light

Sylvania
### Electronic Metal Halide Systems (120-277V)

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Description</th>
<th>Input Current (AMPS)</th>
<th>Lamp ANSI Code</th>
<th>Lamp Type</th>
<th>Rated* Lumens (lm)</th>
<th>No. of Lamps</th>
<th>Ballast Factor (BF)</th>
<th>System Power (W)</th>
<th>System Efficacy (lm/W)</th>
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<tbody>
<tr>
<td>51969</td>
<td>QTP2x20MH UNV-J</td>
<td>0.38/0.16</td>
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<td>70W T6</td>
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</table>

1. Proper ballast mounting must be followed to allow for maximum thermal dissipation:
   a. F can ballast should be mounted with the “feet” side placed tightly against the inside of the fixture.
   b. J can ballast should be mounted with the PEM Stud side placed tightly against the inside of the fixture.

2. Lamp holders and conductors:
   a. Use minimum 4kV Pulse Rated Lamp holder.
   b. Use minimum 600Vrms/4kV Pulse Rated Wire to lamp.
   c. The red lead must be connected to center terminal of lamp.
   d. Do not connect any lamp lead to neutral or ground.

3. Grounding:
   a. The ballast case and fixture must always be grounded. The grounding helps assure safety, proper lamp starting, and acceptable EMI/RFI performance. Install ballast in accordance with national and local electrical codes.
   b. Auto shut down function including end-of-lamp-life and thermal protection:
   a. Disconnect power when servicing. Cycle power to reset ballast after auto shutdown.
   b. Do not operate with dimmer or occupancy sensor.
   c. If connecting the ballast input to 208V or 240V line with two “hot” leads, be sure to wire per NEC code: Re-Mark (re-identify) the ballast white neutral wire to another color (i.e. black). Be sure to simultaneously disconnect all ungrounded line conductors per NEC codes (i.e. switch both hot legs).

More installation considerations are in the QUICKANSWERS section of the Ballast Technology and Specification Guide.

### Performance Guide

Ballast shall be a metal halide SYLVANIA QUICKTRONIC MH electronic ballast with universal input voltage.

### Specifications

- **Voltage Range:** ±10% of 120-277V rated line (108-305V)
- **Input Frequency:** 50/60 Hz
- **Power Factor:** >98%
- **Low THD:** <10%
- **Starting Temp.:** -22°F (-30°C) min.
- **Lamp Frequency:** 165 Hz Square Wave

### System Life / Warranty

For additional details, refer to the QUICK 60+ warranty bulletin.

Max. Case Temp. Measured at

- <75°C: 5 years
- <80°C: 3 years

### Rating Information

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Description</th>
<th>Case Type (Mounting Style)</th>
<th>Line Voltage (120-277V)</th>
<th>Metal Halide</th>
<th>Primary Lamp Wattage</th>
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Specifications subject to change without notice.
Ballast shall be a metal halide SYLVANIA QUICKTRONIC MH electronic ballast with universal input voltage.

Electronic Metal Halide Systems Universal Voltage (120-277V)
### Specification Data

<table>
<thead>
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<th>Catalog #</th>
<th>Date</th>
<th>Type</th>
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**Project Prepared by**

**Comments**

### Electronic Metal Halide Systems

**Mini Square and Mini Slim (120-277V)**

<table>
<thead>
<tr>
<th>Item Number</th>
<th>OSRAM SYLVANIA Description¹</th>
<th>Input Current (AMPS)</th>
<th>Lamp ANSI Code</th>
<th>Lamp* Type</th>
<th>Rated* Lumens (lm)</th>
<th>No. of Lamps</th>
<th>Ballast Factor (BF)</th>
<th>System Lumens</th>
<th>Input Power (W) 120V / 277V</th>
<th>System Efficacy (lm/W)</th>
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<tr>
<td>51959</td>
<td>QTP1x20MH UNV SQ F</td>
<td>0.19/0.09</td>
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</table>

¹ Internal IDTP - Insulation Detection Thermal Protector (see system information for detail).

² Performance information based on ceramic equivalent "C".

### Installation Notes

1. Proper ballast mounting must be followed to allow for maximum thermal dissipation:
   a. F can ballast should be mounted with the "feet" side placed tightly against the inside of the fixture.
   b. J can ballast should be mounted with the PEM Stud side placed tightly against the inside of the fixture.

2. Lamp holders and conductors:
   a. Use minimum 4kV Pulse Rated Lamp holder.
   b. Use minimum 600Vrms/4kV Pulse Rated Wire to lamp.
   c. The red lead must be connected to center terminal of lamp.
   d. Do not connect any lamp lead to neutral or ground.

3. Grounding:
   a. The ballast case and fixture must always be grounded. The grounding helps assure safety, proper lamp starting, and acceptable EMI/RFI performance. Install ballast in accordance with national and local electrical codes.
   b. Disconnect power when servicing. Cycle power to reset ballast after auto shutdown.
   c. Control: Do not operate with dimmer or occupancy sensor.

4. Auto shut down function including end-of-lamp-life and thermal protection:
   a. The ballast case and fixture must always be grounded. The grounding helps assure safety, proper lamp starting, and acceptable EMI/RFI performance.
   b. Do not connect any lamp lead to neutral or ground.

5. Voltage Range: ±10% of 120-277V rated line (108-305V)

### System Life / Warranty

QUICKTRONIC products are covered by the QUICK 60+ warranty, a comprehensive lamp and ballast system warranty. For additional details, refer to the QUICK 60+ warranty bulletin.

More installation considerations are in the QUICKANSWERS section of the Ballast Technology and Specification Guide.