

# MPB Series

## Remote Indoor Ballast, 175-1000W HID

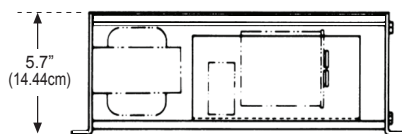
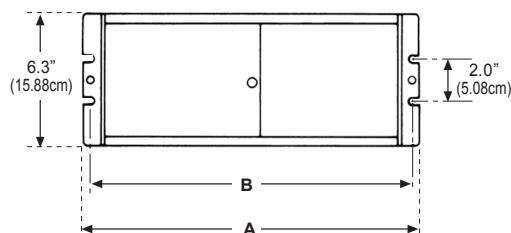
|                       |         |                                |                                     |
|-----------------------|---------|--------------------------------|-------------------------------------|
| Type:                 | Job:    | Approvals:                     |                                     |
| Catalog Number:       |         |                                |                                     |
| Wattage-Series/Source | Voltage | Options<br>(Factory Installed) | Accessories<br>(Shipped Separately) |

Date:  
Page 1 of 2

### Overall Dimensions

For Reference Only

#### MPB



|   | A                  | B                  |
|---|--------------------|--------------------|
| 175 - 400W MH / PSMH<br>(Standard MPB and with Bi-Level option) | 16.0"<br>(40.64cm) | 15.3"<br>(38.89cm) |
| 1000W MH<br>(Standard MPB and with Bi-Level option)             | 18.0"<br>(46.99cm) | 17.3"<br>(43.97cm) |
| 250 - 400W HPS<br>(Standard MPB and with Bi-Level option)       | 16.0"<br>(40.64cm) | 15.3"<br>(38.89cm) |
| 1000W HPS<br>(Standard MPB and with Bi-Level option)            | 18.0"<br>(46.99cm) | 17.3"<br>(43.97cm) |
| 175 - 400W MH / PSMH<br>(With Tri-Level option)                 | 16.0"<br>(40.64cm) | 15.3"<br>(38.89cm) |
| 1000W MH<br>(With Tri-Level option)                             | 24.0"<br>(60.96cm) | 23.3"<br>(59.21cm) |
| 250 - 400W HPS<br>(With Tri-Level option)                       | 16.0"<br>(40.64cm) | 15.3"<br>(38.89cm) |
| 1000W HPS<br>(With Tri-Level option)                            | 24.0"<br>(60.96cm) | 23.3"<br>(59.21cm) |

Note: Consult factory to confirm dimensions A and B.

#### Weight (maximum)

46 lbs. (20.86 kgs)

### Specifications

#### System Features

MPB ballasts are suitable for indoor applications and are used either when luminaires cannot be integrally equipped, or when remote mounting is desired (Less Ballast fixtures, or fixtures by others). (See Series Note 1 on page 2.) Optional BL/TL multi-level switching ballasts for use with all Bi/Tri-Level switching controls.

#### Ballast Assembly

Ballast enclosure shall be extruded aluminum with aluminum end caps. A large compartment with knockouts allows easy wiring access.

#### Ballast

SilentGuard high power factor regulating ballast designed for -29°C (-20°F) starting temperature for Metal Halide lamps, -34°C (-30°F) for Pulse Start Metal Halide lamps, and -40°C (-40°F) for High Pressure Sodium lamps.

A solid polyester resin compound shall encapsulate the core and coil assembly to isolate vibration, suppress sound, dissipate heat, and provide protection from moisture and corrosion, thereby ensuring the longest possible ballast life.

180°C (356°F) Class H insulation system. Crest factor does not exceed 1.8.

#### Mounting

All models shall be adaptable for wall or rack mounting. An optional 3/4" NPT hub is available for pendant mounting. The MPB Series shall allow retrofitting of the RIB Series ballast by using the MPB/RIB retrofit mounting kit. Consult factory.

#### Finish

Standard finish shall be black Ultra-Clad polyester powder coat, electrostatically applied and oven cured. Other colors may be specified.

#### Listings

ETL/cETL listed to the UL 1598 standard, suitable for Wet Locations.

The quality systems of this facility have been registered by UL to the ISO 9001 Series Standards.

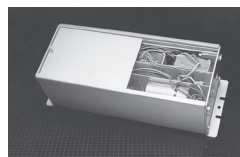
#### Warranty / Terms and Conditions

Standard 5 Year Limited Warranty.

# MPB Series

## Remote Indoor Ballast, 175-1000W HID

|       |      |             |
|-------|------|-------------|
| Type: | Job: | Page 2 of 2 |
|-------|------|-------------|



### Notes

- (1) With remote ballasts for recessed luminaires, or recessed mounting of the MPB ballast in ceiling plenum, specify "R" recessed option.
- (2) Allows field selection of 120/208/240/277 voltage. (No 480V).
- (3) Bi-Level and Tri-Level require 5 wires. Consult factory when specifying dimming with Metal Halide.
- (4) Consult factory for other colors.

### Accessories

- ☐ **F1-KIT** Single Fuse Kit (120/277V)
- ☐ **F2-KIT** Double Fuse Kit (208/240/480V)

| Wattage-Series/Source <sup>1</sup>   | Voltage  | Options   | Finish <sup>4</sup>   |
|--|--|---|---|
| <b>Metal Halide</b><br><input type="checkbox"/> <b>175-MPBM</b><br><input type="checkbox"/> <b>250-MPBM</b><br><input type="checkbox"/> <b>400-MPBM</b><br><input type="checkbox"/> <b>1000-MPBM</b>   | <input type="checkbox"/> <b>120</b><br><input type="checkbox"/> <b>208</b><br><input type="checkbox"/> <b>240</b><br><input type="checkbox"/> <b>277</b> | <input type="checkbox"/> <b>BL<sup>3</sup></b> Bi-Level Ballast<br>for use with Bi-Level switching controls<br><input type="checkbox"/> <b>TL<sup>3</sup></b> Tri-Level Ballast<br>for use with Tri-Level switching controls<br><input type="checkbox"/> <b>CSR</b> Hot Quartz Restrike<br>Auxiliary quartz lamp extinguishes when the main HID lamp strikes.<br>(Uses a current sensing relay).<br><input type="checkbox"/> <b>LQ</b> Hot/Cold Quartz Restrike<br>LiteMatic quartz operation:<br>Auxiliary quartz lamp does not extinguish until the main HID lamp reaches approximately 40% light output. (120V or multi-tap ballasts).<br><input type="checkbox"/> <b>PM</b> Pendant Mount<br>3/4" NPT hub for mounting to rigid conduit (by others)<br><input type="checkbox"/> <b>R</b> Automatic Resetting Thermal Protector<br>Required for remote ballasts in ceiling plenums or with recessed luminaires. Ballast will shut off to avoid overheating and restart when unit has cooled to a safe temperature.<br><input type="checkbox"/> <b>F1</b> Single Fuse (120/277V)<br><input type="checkbox"/> <b>F2</b> Double Fuse (208/240/480V) | <input type="checkbox"/> <b>BLK</b> Black (standard)<br><input type="checkbox"/> <b>WHT</b> White |
| <b>Pulse Start Metal Halide</b><br><input type="checkbox"/> <b>175-MPBP</b><br><input type="checkbox"/> <b>250-MPBP</b><br><input type="checkbox"/> <b>320-MPBP</b><br><input type="checkbox"/> <b>350-MPBP</b><br><input type="checkbox"/> <b>400-MPBP</b><br><input type="checkbox"/> <b>1000-MPBP</b> | <input type="checkbox"/> <b>480</b><br><input type="checkbox"/> <b>QV<sup>2</sup></b>  |   |   |
| <b>High Pressure Sodium</b><br><input type="checkbox"/> <b>250-MPBS</b><br><input type="checkbox"/> <b>400-MPBS</b><br><input type="checkbox"/> <b>1000-MPBS</b>   |  |   |   |

## Distribution Guide & Ballast Data<sup>1</sup>

| Source Type <sup>(1,2)</sup> | Catalog Number   | Maximum Remote Mounting Distances <sup>(3,4)</sup> |         |         |         |         | Ballast Type <sup>(5)</sup> | ANSI Code        | Line Current<br>120 / 208 / 240 / 277 / 480 | Line Watts |
|------------------------------|------------------|--|---------|---------|---------|---------|-----------------------------|------------------|---|------------|
|                              |                  | #10 AWG  | #12 AWG | #14 AWG | #16 AWG | #18 AWG |                             |                  |   |            |
| <b>MH</b>                    | <b>1000-MPBM</b> | 325'   | 205'    | 125'    | 80'     | 50'     | CWA                         | M47 / H36        | 9.2 / 5.6 / 4.7 / 4.1 / 2.4                 | 1080       |
|                              | <b>400-MPBM</b>  | 200'   | 125'    | 75'     | 50'     | 30'     | CWA                         | M59 / H33        | 4.4 / 2.5 / 2.2 / 1.9 / 1.1                 | 462        |
|                              | <b>250-MPBM</b>  | 300'   | 190'    | 120'    | 75'     | 45'     | CWA                         | M58 / H37        | 2.8 / 1.6 / 1.4 / 1.2 / 0.7                 | 297        |
|                              | <b>175-MPBM</b>  | 425'   | 265     | 165'    | 105'    | 85'     | CWA                         | M57 / M107 / H39 | 1.8 / 1.1 / 0.9 / 0.8 / 0.5                 | 213        |
| <b>PS</b>                    | <b>1000-MPBP</b> | Maximum remote distance is 50'                     |         |         |         |         | CWA                         | M141             | 9.0 / 5.2 / 4.5 / 3.9 / 2.4                 | 1080       |
|                              | <b>450-MPBP</b>  | Maximum remote distance is 50'                     |         |         |         |         | CWA                         | M144             | 4.4 / 2.6 / 2.2 / 1.9 / 1.1                 | 514        |
|                              | <b>400-MPBP</b>  | Maximum remote distance is 50'                     |         |         |         |         | CWA                         | M135 / M155      | 4.0 / 2.2 / 1.9 / 1.8 / 1.0                 | 456        |
|                              | <b>350-MPBP</b>  | Maximum remote distance is 50'                     |         |         |         |         | CWA                         | M131             | 3.7 / 2.1 / 1.8 / 1.6 / 0.9                 | 400        |
|                              | <b>320-MPBP</b>  | Maximum remote distance is 50'                     |         |         |         |         | CWA                         | M132 / M154      | 3.3 / 1.9 / 1.7 / 1.4 / 0.8                 | 368        |
|                              | <b>250-MPBP</b>  | Maximum remote distance is 50'                     |         |         |         |         | CWA                         | M138 / M153      | 2.8 / 1.5 / 1.3 / 1.2 / 0.6                 | 298        |
|                              | <b>175-MPBP</b>  | Maximum remote distance is 50'                     |         |         |         |         | CWA                         | M137 / M152      | 2.0 / 1.1 / 0.9 / 0.8 / 0.5                 | 220        |
| <b>HPS</b>                   | <b>1000-MPBS</b> | Maximum remote distance is 50'                     |         |         |         |         | CWA                         | S52              | 9.5 / 5.5 / 4.8 / 4.2 / 2.5                 | 1100       |
|                              | <b>400-MPBS</b>  | Maximum remote distance is 50'                     |         |         |         |         | CWA                         | S51              | 4.1 / 2.5 / 2.1 / 1.9 / 1.1                 | 467        |
|                              | <b>250-MPBS</b>  | Maximum remote distance is 50'                     |         |         |         |         | CWA                         | S50              | 2.7 / 1.6 / 1.3 / 1.2 / 0.7                 | 310        |

### Distribution Guide and Ballast Data Notes:

- (1) MH = Metal Halide, PS = Pulse Start Metal Halide, HPS = High Pressure Sodium.
- (2) For Metal Halide, voltage drop limited to 1% of lamp voltage.

- (3) Maximum one-way length of wire between individual lamp and ballast.
- (4) Use only 600V rated wire.
- (5) CWA= Constant Wattage Autotransformer.



ISO 9001  
Certified

### Notes



© 2013 Koninklijke Philips N.V. All rights reserved.  
Specifications are subject to change without notice.  
www.philips.com/luminaires

MPB spec sheet-SP0174B1110 01/14 page 2 of 2

Philips Lighting  
North America Corporation  
200 Franklin Square Drive  
Somerset, NJ 08873  
Phone: 855-486-2216

Philips Lighting Company  
281 Hillmount Road  
Markham ON, Canada L6C 2S3  
Phone: 800-668-9008