

## Phantom 60 Series 1000W Lighting System

### Open Reflector

PHRO1000277 – 277–400V

The Phantom 60 series represents the newest generation of HID lighting performance from the most trusted brand used by professional growers worldwide. The 60 series offers a compact and lightweight form factor in a modern design. The wide spread of the open reflector provides remarkable uniformity across plant canopies. The louvered design effectively dissipates heat while maintaining optimal lamp operational temperature in order to maximize lamp output. Easy installation and faster re-lamping process from the streamlined reflector design.



### Phantom 60 Series 1000W System Features – Open Reflector

|                               |   |
|-------------------------------|---|
| Lamp Compatibility            | 1000W HPS or MH DE* lamps                   |
| Reflector                     | Open DE                                     |
| Reflector Material            | European 99.85% pure, 95% reflectivity      |
| Ballast                       | Phantom DE Intelligent Controllable Ballast |
| Ballast and Armature Material | Aluminum                                    |
| Socket                        | K12 x 30 lampholders                        |
| Fixture Weight                | 9.7 lbs                                     |

### Ballast Features – All Ballasts

- Microprocessor Control
- LED Status Indicator
- Open Circuit Protection
- Open Circuit Indicator
- Short Circuit Protection
- Short Circuit Indicator
- Overtemperature Protection
- Overtemperature Indicator
- End-of-Lamp-Life Sensor
- End-of-Lamp-Life Indicator
- Over/Undervoltage Protection
- Over/Undervoltage Indicator
- Patented Ignition Control
- RJ12 Port to Integrate with PX Lighting Controller
- Auto-restrike Protection
- Internal EMI Suppression
- Vent Plug
- 0–11.5V DC Analog Control Signal

### Ballast Electrical Specifications

|                         |                                    |
|-------------------------|------------------------------------|
| <b>Ballast Model</b>    | <b>PHB6024</b>                     |
| Output Power Settings   | 600W-660W-750W-825W-1000W-1150W-PX |
| Frequency               | 50/60Hz                            |
| Igniter Voltage         | 3–5 kV                             |
| THD                     | < 8%                               |
| CF                      | 1.414–1.6                          |
| ta                      | 40°C/104°F                         |
| tc                      | 80°C/176°F                         |
| Wattage                 | 1000W                              |
| Main Voltage            | 277–400V                           |
| Operating Voltage Range | 249–440V                           |
| Max Input Power         | 1236W                              |
| Power Factor            | >0.97                              |

### Ballast Input Amperage Reference

| Voltage | 277V | 347V | 400V |
|---------|------|------|------|
| Rated   | 4.8A | 3.8A | 3.3A |
| 1150W   | 4.8A | 3.8A | 3.3A |
| 1000W   | 4.1A | 3.3A | 2.8A |
| 825W    | 3.4A | 2.8A | 2.4A |
| 750W    | 3.1A | 2.5A | 2.2A |
| 660W    | 2.8A | 2.3A | 2.0A |
| 600W    | 2.5A | 2.1A | 1.8A |

### Phantom 60 Series Safety Certifications

|                           |     |
|---------------------------|-----|
| CSA/UL                    | Yes |
| FCC Commercial            | Yes |
| IC Certification (Canada) | Yes |

### Phantom 60 Series Operation Notes

\*Metal Halide Double Ended (MH DE) lamps must be open rated and run at 100% power only. For use with a generator, line conditioning equipment to control input voltage must be used in order to avoid damage to the ballasts. Contact us for details.

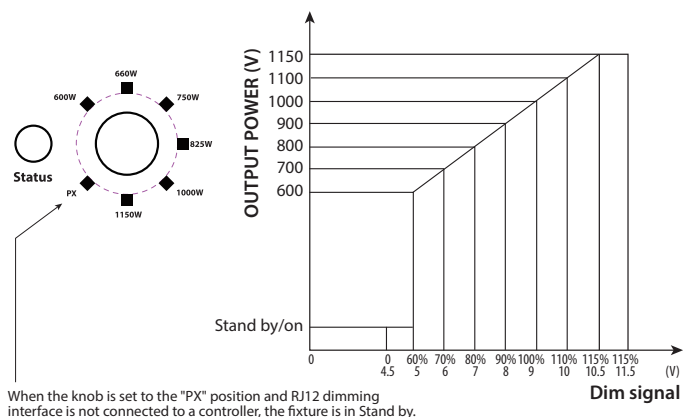
### Phantom 60 Series Optional Accessories

The truss hangers below (PHDETH3, sold separately) are designed to easily mount your Phantom fixture from Unistrut® or greenhouse C-channel strut for secure, level suspension in both a parallel or perpendicular orientation.



### Dimming Chart

| Signal Voltage | Vdc < 4.5V | 4.5VsVdc < 5V | 5V         | 6V         | 7V         | 8V         | 9V           | 10V          | 10.5–11.5V   |
|----------------|------------|---------------|------------|------------|------------|------------|--------------|--------------|--------------|
| Ballast status | OFF        | Stand by/on   | 60% (600W) | 70% (700W) | 80% (800W) | 90% (900W) | 100% (1000W) | 110% (1100W) | 115% (1150W) |

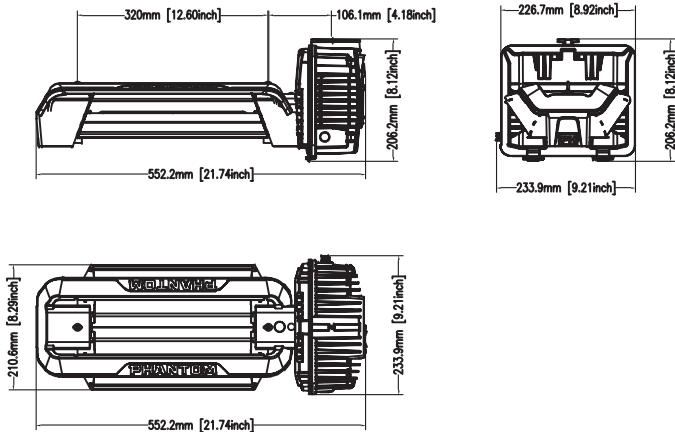


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### Dimensional Drawings

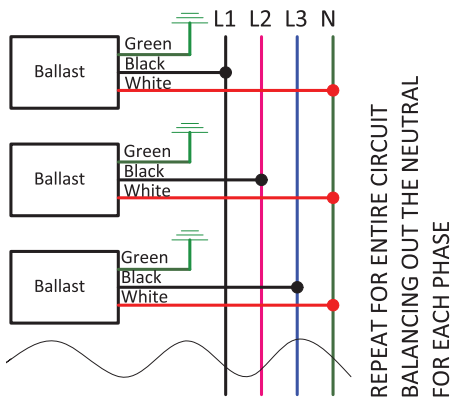


### Wiring Diagrams

Each ballast **MUST** be wired to the main's neutral line back to the circuit. **DO NOT** "daisy-chain" a neutral line with any other ballast.

## 277V/347V

(Supply voltage 480V/600V)



### Compatible Lamps

Agrosun 1000W 400V High Output HPS  
Phantom Pro 1000W DE HPS  
Phantom Pro 1000W DE MH  
Ushio AHS-DE 1000W/Pro-Plus  
Philips Master Green Power Plus 1000W EL  
BLV 1000 DE MH

### Polar Diagram



**⚠ WARNING: POSSIBLE RISK OF INJURY TO EYES AND SKIN.**

Hazardous optical UV, HEV, and IR radiation may be emitted from the light source. Always wear personal protective equipment ensuring complete shielding of skin and eyes. Avoid prolonged exposure and looking directly at light source.

**⚠ WARNING: FAILURE TO FOLLOW GUIDELINES COULD RESULT IN ELECTRICAL SHOCK.**

Do not touch, move, spray, or clean your light fixture when it is plugged in. Allow it to cool down before handling. Recommended mounting clearance for your fixture is 8"-12" on all sides. Do not mount directly to any surface. Make sure to disconnect the power when changing the lamp. This tech sheet is not in any way a replacement for a technical installation manual. Consult technical installation manual prior to installation.

### Power Harness Options

| Item Code   | Image | Type    | Description                          |
|-------------|-------|---------|--------------------------------------|
| CHE1063000W |       | w/leads | 10' F 16AWG WT w/ leads, Harness     |
| CHE1083020W |       | 277V    | 10' F 18AWG WT 277V, L7-15P, Harness |
| CHE1083021W |       | 277V    | 10' F 18AWG WT, L7-20P, Harness      |

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