

## Phantom 50 Series 1000W Lighting System **Open Reflector**

PHDEOK - ALL MODELS

The Phantom 50 Series DE Lighting System delivers unsurpassed performance and reliability. Phantom is trusted by professional growers worldwide.

The wide spread of the open reflector provides exceptional uniformity. The louvered design effectively dissipates heat while maintaining ideal lamp operational temperature which maximizes lamp output and lifetime.

#### Phantom 50 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 "Smart" 1000 W, 50 series

Ballast and Aluminum Armature Material

K12 x 30 lampholders Socket

Fixture Weight 12.1 lbs

#### Ballast Features – All Ballasts

- Microprocessor Control
- LED Status Indicator
- Open Circuit Protection
- Open Circuit Indicator
- Short Circuit Protection
- Short Circuit Indicator
- Overtemperature Protection Internal EMI Suppression
- Overtemperature Indicator

**Ballast Electrical Specifications** 

• End-of-Lamp-Life Sensor • End-of-Lamp-Life Indicator

**Output Power Settings** 

All Ballasts

Frequency

THD

CF

ta

tc

Igniter Voltage

- Over/Undervoltage Protection Over/Undervoltage Indicator

600W-750W-825W-1000W-1150W

- Patented Ignition Control
- USB Port to Integrate with Climate Controls
- Auto-restrike Protection
- Gore-Tex® Vent Plug

50/60Hz

1.414-1.6 40°C/104°F

70°C/158°F

3-5 kV

< 8%

### **Phantom 50 Series Safety Certifications**

#### PHDEOK11 PHDEOK12 PHDEOK13 PHDEOK14 PHDEOK15 CSA/UL Yes Yes Yes Yes Yes **FCC Commercial** Yes Yes Yes Yes Yes FCC Residential Yes Yes No No No IC Certification No Yes No No No

#### **Phantom 50 Series Operation Notes**

(Canada)

\*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 50 Series Optional Accessories**

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

Hanger PHDETH1	PHDEOK11  ✓	PHDEOK12 ✓	PHDEOK13  ✓	PHDEOK14  ✓	PHDEOK15  ✓
PHDETH2	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
PHWHS020	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$
PHWHL020		$\checkmark$			
Contact us for details about each hanger option.	PHDETH	I PHDE	TH2 PHV	WHS020	PHWHL020

Lighting Fixture Code	PHDEOK11	PHDEOK12	PHDEOK13	PHDEOK14	PHDEOK15
Ballast Model	PHB5015	PHB5010	PHB5020	PHB5025	PHB5030
Lamp Power	1000W	1000W	1000W	1000W	1000W
Main Voltage	208-240V	120-240V	277V	347V	480V
Operating Voltage Range	185-265V	110-265V	255-300V	310-380V	450-510V
Max Input Power	1236W	1246W	1236W	1236W	1215W
8' Power Cord	240V 16/3 IEC	120V 16/3 IEC	277V 16/3 AWG	347V 16/3 AWG	600V 16/3 AWG
NFMA Plua	6-15	5-15	17-15P Twist Lock	124-20P Twist Lock	18-20P Twist Lock

#### **Ballast Input Amperage Reference**

Voltage	208V	240V	120V	240V	277V	347V	480V
Imax	6.0A	5.3A	10.5A	5.3A	4.6A	3.6A	2.6A
1150W	5.8A	5.1A	10.2A	5.1A	4.4A	3.4A	2.5A
1000W	5.1A	4.4A	8.9A	4.5A	3.8A	3.0A	2.2A
825W	4.2A	3.7A	7.4A	3.7A	3.2A	2.5A	1.8A
750W	3.9A	3.3A	6.7A	3.3A	2.8A	2.2A	1.6A
600W	3.1A	2.7A	5.4A	2.7A	2.3A	1.8A	1.3A

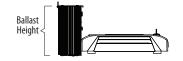


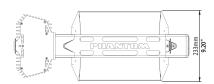
#### PHANTOM 50 SERIES 1000W OPEN

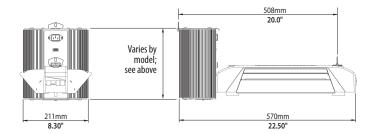
#### **Dimensional Drawings**

Ballast height dimension varies by model:

PHDEOK11 229mm / 9" PHDEOK12 261mm / 10.28" PHDEOK13 229mm / 9" PHDEOK14 211mm / 8.3" PHDEOK15 211mm / 8.3"

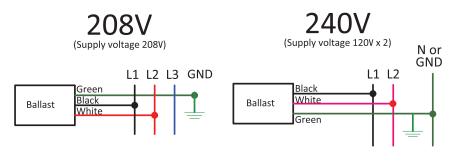


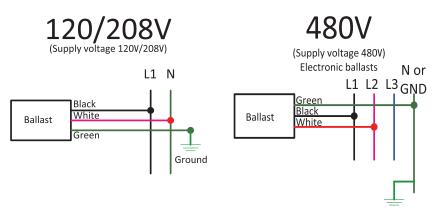




### **Wiring Diagrams**

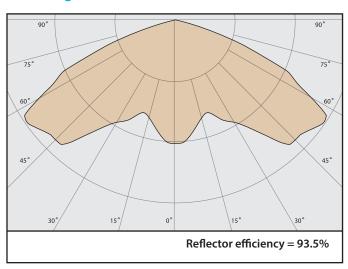
Each ballast MUST be wired to the main's neutral line back to the circuit. DO NOT "daisy-chain" a neutral line with any other ballast.





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#### **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.

# 277V/347V (Supply voltage 480V/600V)

