

Phantom 50 Series 1000W Lighting System **Enclosed Reflector**

PHDESK - ALL MODELS

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

The medium spread of the enclosed reflector is designed to uniformly deliver higher average light levels to the plant canopy. Proprietary ridge vent design maintains ideal lamp operational temperature which maximizes lamp output and lifetime.

Phantom 50 Series 1000W System Features – **Enclosed Reflector**

Lamp Compatibility 1000W HPS or MH DE* lamps Reflector **Enclosed DE** Reflector Material Ballast Phantom "Smart" 1000 W, 50 series Ballast and Aluminum Armature Material

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
 Gore-Tex® Vent Plug
- End-of-Lamp-Life Sensor • End-of-Lamp-Life Indicator

Output Power Settings

All Ballasts

Frequency

THD

CF

ta

tc

Igniter Voltage

Ballast Electrical Specifications

European 99.85% pure, 95% reflectivity

K12 x 30 lampholders

50/60Hz

1.414-1.6 40°C/104°F

70°C/158°F

3-5 kV

< 8%

- Over/Undervoltage Protection
- Over/Undervoltage Indicator

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

- Patented Ignition Control
- USB Port to Integrate with Climate Controls
- Auto-restrike Protection

Phantom 50 Series Safety Certifications

	PHDESK11	PHDESK12	PHDESK13	PHDESK14	PHDESK15
CSA/UL	Yes	Yes	Yes	Yes	Yes
FCC Commercial	Yes	Yes	Yes	Yes	Yes
FCC Residential	Yes	Yes	No	No	No
IC Certification	No	No	No	Yes	No
(Canada)					

Phantom 50 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 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.

DUDECK11 DUDECK10 DUDECK10 DUDECK14 DUDECK16

IDESK11 P ✓	HDESK12 ✓	PHDESK13 ✓	PHDESK14	PHDESK15 ✓
\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
\checkmark		\checkmark	\checkmark	\checkmark
	\checkmark			
PHDETHI	PHDET	TH2 PHV	VHS020	PHWHL020
	PHDEIHI	PHDEIHI PHDEI	PHDETH1 PHDETH2 PHV	PHDETH1 PHDETH2 PHWHS020

Lighting Fixture Code	PHDESK11	PHDESK12	PHDESK13	PHDESK14	PHDESK15
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
NEMA Plug	6-15	5-15	L7-15P Twist Lock	L24-20P Twist Lock	L8-20P 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 Lighting System

Enclosed Reflector

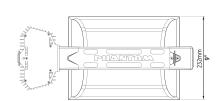
PHDESK - ALL MODELS

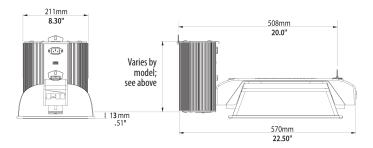
Dimensional Drawings

Ballast height dimension varies by model:

PHDESK11 229mm / 9" PHDESK12 261mm / 10.28" PHDESK13 229mm / 9" PHDESK14 211mm / 8.3" PHDESK15 211mm / 8.3"

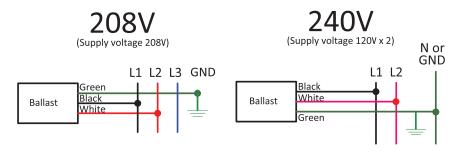


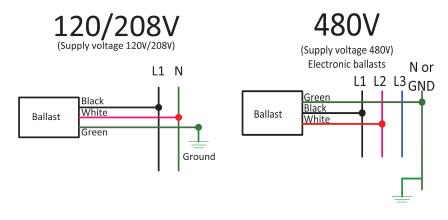




Wiring Diagrams

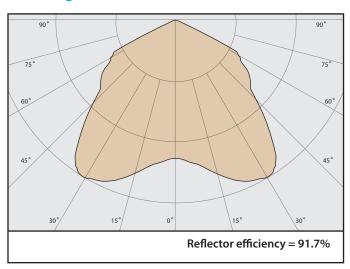
Each ballast MUST be wired to the main's neutral line back to the circuit. DO NOT "daisy-chain" a neutral line with any other ballast.





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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)

