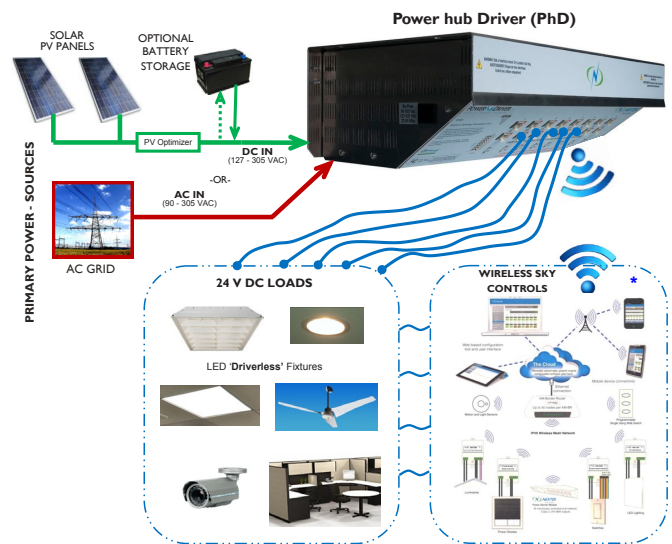




OVERVIEW

To meet stringent building and energy codes, power and lighting systems are undergoing an industry-wide transformation. Components need to be interactive, responsive, efficient, reliable, and in one word: SMART! The Power hub Driver provides the ideal platform to support this evolution to smart power technology. We offer fully integrated multiple wireless or wired communication options and a significant array of built-in safety and performance features. The PhD supports a wide assortment of highly efficient DC powered fixtures and loads for buildings of today and tomorrow. The PhD presents an unparalleled opportunity to provide your building with full integration through a variety of renewable power sources. In short, our PhD is 'Really Smart Power.'



FEATURES AND BENEFITS

- Converts Class 1 AC (90-305Vac) or DC (127-431Vdc) power to 16 individual Class 2 channel outputs reduces installation costs
- Safe Class 2 wiring
- Modulates Class 2 output power to dim LED lighting to eliminate LED drivers in light fixtures (Not all models)
- Integrates eight zone 0-10V dimming system to eliminate additional 0-10V dimming system (Not all models)
- Integrates wired or wireless communication to simplify commissioning of control systems
- Fanless, passive cooling for quiet, long-lasting operation
- State-of-the-Art Class 2 connector system for robust, adjustable, cost-effective installation
- Each Class 2 output (Channel) has short circuit and over-power shut-down to protect low voltage installers
- Compatible with Nextek custom cables to have turn-key solution delivered to site
- Compatible with Emerge Alliance® LED light fixtures to ensure trouble-free installations
- Optional mounting brackets for installing unit on any modular ceiling system
- Optional color choices to complement building aesthetic



For more information:

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PhD MODELS

	INPUT	MODEL	OUTPUT VOLTAGE	COMMUNICATION
PhD 16 16 Channels	ACDC Dual Rated Input 90VAC-305VAC OR 127VDC-430VDC (Cannot connect AC and DC simul- taneously)	<input type="text"/> DIM (default): Independent PWM Dimming of channel outputs; 8X 0-10V sourcing output DIM-P: Independent PWM Dimming of channel outputs; 8X 0-10V sourcing output + Plenum Rated NODIM: No PWM dimming of channel output; No 8X 0-10V sourcing output. Not Plenum rated	<input type="text"/> 24VDC (default): Channel output set to 24VDC per Emerge Alliance standards C(25-54): All channel outputs factory set between 25VDC and 54VDC per customer requirements	<input type="text"/> 6: 6LoWPAN/IPV6 protocol radio to integrate with Nextek SKY wireless controls (default) B: Wired BacNet/IP to integrate with wired Building Management Systems NC: No Communication

COMPLIANCE / FILE NO.

- UL 1012/1310
- UL 8750 (CSA C22.2#250.13)
- UL 2043 (ULC/ORD C2043)
- UL 2577
- EmergeAlliance®
- RoHS compliant

SPECIFICATIONS—MECHANICAL

- Dimensions (WXHxD): 23.5 X 5.8 X 13.6 in (597 X 147 X 345 mm)
- Weight: 32 lbs (20kg)
- Mounting Options: Hard mount to concrete ceiling, bracket mount to suspended ceiling, threaded rod, wire rope hanging systems

SPECIFICATIONS—ELECTRICAL

- Input Voltage Range: 90-305Vac or 127-431Vdc
- Power Factor Correction: >0.98 @ 115Vac, >0.93 @ 277Vac
- Max Input Power: 1660W
- Max Input Current: 6.1A-13.8A
- Wago® PicoMAX® connector on PhD end
- Output: 16 x 95W MAX @ 24VDC

FCC Requirements:

This device complies with Part 15 Class B of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference that may cause undesired operation.

Changes or modifications not expressly approved by Nextek Power Systems, Inc. for compliance could void the user's authority to operate the equipment.

OPTIONS / ACCESSORIES

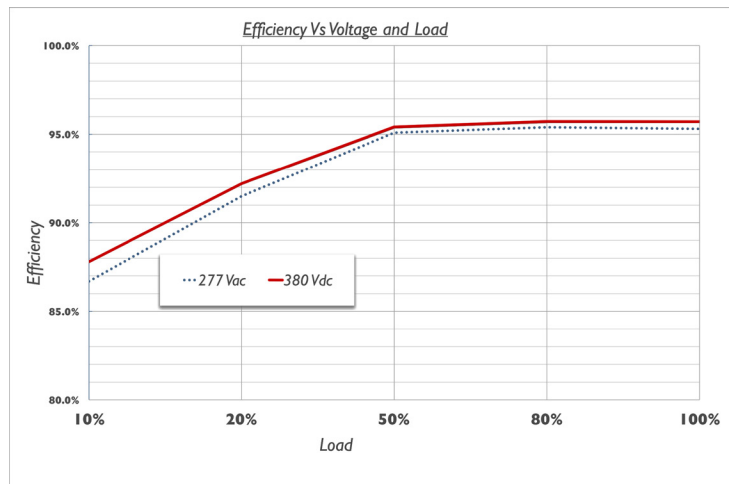
COLORS

- N - Natural Aluminum (Standard)
- BLK - Black
- TAN - Putty/Tan
- CC - Custom color

MOUNTING OPTIONS

- NL - No legs
- CL - Leg kit to attach PhD to ceiling grid

EFFICIENCY



NOTE: Connected DC loads shall NOT have any inrush amperage.