

LOCATION: DATE: PROJECT: TYPE: CATALOG #:

POWERLED

FEATURES

- · Provides a minimum of 90 minutes of emergency lighting
- Can be used with normally-on, normally-off or switched fixtures
- Constant power design provides emergency lighting without loss of lumen output
- · Auto-sensing output voltage throughout full Vf range of 20-56V
- 2-wire, universal input voltage: 120-277VAC, 50/60Hz operation
- Electronic AC lockout and low voltage disconnect (LVD) circuit
- · 2-wire test switch and LED charging indicator supplied standard
- · Optional Remote Test Switch / Charge Indicator





applies to PLD10M only

applies to PLD9M-2H only



RELATED PRODUCTS

8 PLD10

8 PLD7

8 PLD7M

8 PLD7M2

SPECIFICATIONS

APPLICATION

- · The Dual-Lite PLD9/10M is a universal input (120-277V) emergency
- · LED battery pack that works with an AC LED driver to allow an LED lighting load to be used in both normal and emergency operation.
- When normal AC power is lost, the PLD9/10M series operates to provide 10 or 9 watts of constant emergency power at a rated output voltage of 20-56Vdc
- · The constant power design provides backup for a minimum of 90 minutes (10 watt output), or 120 minutes (9 watt output) with no loss of emergency lumen output
- · When used with emergency-only LED fixtures, no AC driver is needed
- The UL924 Listing allows for both field and factory installations of suitable LED loads including LED luminaires, DC voltage driven LED replacements for fluorescent lamps and others

CONSTRUCTION

- · The Dual-Lite PLD9/10M series consists of a compact case constructed of durable, galvanized steel
- · The unit contains a solid-state charger with automatic transfer circuit, a 2-wire test switch and LED charging indicator light, and a hightemperature, Nickel-Cadmium battery

INSTALLATION

- The PLD9/10M emergency battery pack does not affect normal LED fixture operation and may be used with either switched or unswitched fixtures
- · If a switched fixture is used, an unswitched hot lead must be connected to the emergency ballast.
- The emergency battery packs must be fed from the same branch circuit as the AC LED driver
- · Due to its steel construction, the PLD9/10M is designed to be mounted outside the LED fixture
- The PLD9/10M emergency battery pack is suitable for use in damp locations where the ambient temperature is between 0°C (32°F) and 55°C (131°F)
- · It is not suitable for installation in heated air outlet fixtures and wet or hazardous location fixtures

ILLUMINATION

- The PLD9/10M will operate an LED load, that has a power rating of 10 watts or greater, for a minimum of 90 minutes, or 9 watts or greater for a minimum of 120 minutes
- Using the LED load's efficacy in lm/w, as published by the Design Lights Consortium website (http://www.designlights.org), Energy Star - Certified Products - product finder website (http://www.energystar. gov/productfinder) or given by the luminaire manufacturer on product catalog specification sheets, lumen output can be calculated by multiplying by the PLD9/10M output power (10w or 9w).

COMPLIANCES

- · UL 924 Recognized and Damp Location Listed for field installation
- UL 1310 Certified (Class 2 output)
- · CSA C22.2 No. 141 (Canadian Life Safety Standard, PLD10M only)
- NFPA 101 (Life Safety Code)
- NFPA 70 (National Electrical Code)
- · CEC Title 20 Compliant (CEC Battery Charger Efficiency Standard)

WARRANTY

5 Year Full Warranty





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ORDERING GUIDE

Example: PLD10 CATALOG #

PLD							
Model		Output Power		Ho	using	Runtime	
PLD	Battery Pack	9	9 Watts ¹	М	Metal	Blank	90 Minutes
		10	10 Watts			2H	120 Minutes ²

Accessories (Order Separately) PLRTS Remote Test Switch/Charge Indicator Module³

Notes

- 1 Only available with 120 minute runtime (2H)
- Only avaliable with 9 Watt output power (PLD9M) 2
- Fits Single-Gang Box

PRODUCT DETAILS

OPERATION

The PLD9/10M series emergency LED battery pack is designed to provide a minimum of 90 or 120 minutes of emergency lighting to commercial or industrial LED fixtures. Operation is fully automatic. A solid-state charger maintains the battery at full charge as long as utility power is present. Upon interruption of utility power, the unit will activate and the automatic transfer circuit will switch to the emergency mode, keeping the LED load illuminated for a minimum of 90 or 120 minutes. Lumen output during emergency mode is estimated as described below. Upon restoration of utility power, the PLD9/10M emergency battery pack will return to the charging mode. Full battery recharge is accomplished within 24 hours. A test switch and LED status indicator light is provided for testing and monitoring of unit performance.

The egress illumination levels can be estimated by doing the following:

- a. Find the efficacy of the LED lighting fixture. Luminaire efficacy information can be found at the Design Lights Consortium website (http://www. designlights.org), Energy Star - Certified Products - product finder website (http://www.energystar.gov productfinder/) or given by the luminaire manufacturer on product catalog specification sheets. The LED fixture efficacy will be given in lumens per watt (Im/w).
- b. Lumens can be calculated by multiplying the output power of the emergency LED driver (10W or 9W) by the efficacy of the LED load.In many cases the actual lumen output in emergency mode will be greater than this calculation yields, however it will provide a good estimate for beginning the lighting design of the system.

Lumens In Emergency Mode = Lumens Per Watt of Fixture * Output Power of Chosen Product (LUMENS) = (LM/W) * W

c. Using the results of this calculation and industry standard lighting design tools, calculate the anticipated illumination levels in the path of egress.

NOTE: Consult Installation Instructions for fixture compatability requirements. After installation, it will be necessary to measure the egress lighting illumination levels to ensure compliance with national, state and local code requirements.

STANDARD FEATURES INCLUDE

- · Provides a minimum of 90 or 120 minutes of emergency lighting
- Can be used with normally-on, normally-off or switched fixtures
- · Constant power design provides emergency lighting without loss of lumen output
- · Auto-sensing output voltage throughout full Vf range of 20-56V
- · 2-wire, universal input voltage: 120-277VAC, 50/60Hz operation
- Long life, maintenance-free Nickel-Cadmium battery with 7-10 year life expectancy
- Electronic AC lockout and low voltage disconnect (LVD) circuit
- · 2-wire test switch and LED charging indicator supplied standard

INPUT VOLTAGE

120 - 277VAC (Universal), 50/60Hz

INPUT POWER

4.2 Watts (maximum)

OUTPUT VOLTAGE

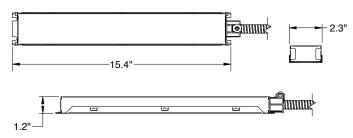
20-56VDC (Class 2 Compliant)

OUTPUT POWER

10 Watts (constant) - PLD10M 9 Watts (constant) - PLD9M-2H

DIMENSIONS

NOMINAL DIMENSIONS: 15.4"L X 2.3"W X 1.2"H



High Temperature Nickel-Cadmium, 7-10 years life expectancy

WEIGHT 3.4 lbs (1.54 kg)

OPERATING TEMPERATURE 0°C to 55°C (32°F to 131°F)

> HUBBELL HUBBELL

Lighting

0.50A (@ 20VDC) - 0.17A (@ 56VDC) - PLD10M

0.45A (@20VDC) - 0.16A (@56VDC) - PLD9M-2H

OUTPUT CURRENT

RECHARGE TIME

24 Hours (maximum)

EMERGENCY OPERATION

90 minutes (minimum) - PLD10M

120 minutes (minimum) - PLD9M-2H