

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

FEATURES

- Provides a minimum of 90 minutes of emergency lighting
- 25 watts of output capacity for use with LED fixtures rated greater than 25 watts
- 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 20-50VDC
- 2-wire, universal input voltage: 120-277VAC, 50/60Hz operation
- Electronic AC lockout and low voltage disconnect (LVD) circuit
- · 4-wire test switch and LED charging indicator supplied standard



SPECIFICATIONS

APPLICATION

- The Dual-Lite PLD25M 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 PLD25M operates to provide 25 watts of constant emergency power at a rated output voltage of 20-50Vdc
- The constant power design provides backup for a minimum of 90 minutes 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 PLD25M consists of a compact case constructed of durable painted steel
- The unit contains a solid-state charger with automatic transfer circuit, a 4-wire test switch and LED charging indicator light, and a long-life, Lithium Iron Phosphate battery

INSTALLATION

- The PLD25M 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 PLD25M is designed to be mounted outside the LED fixture
- The PLD25M emergency battery pack is suitable for use in damp locations where the ambient temperature is between 10°C (50°F) and 50°C (122°F)
- It is not suitable for installation in heated air outlet fixtures and wet or hazardous location fixtures.

ILLUMINATION

- The PLD25M will operate an LED load, that has a power rating of 25 watts or greater, for a minimum of 90 minutes
- Using the LED load's efficacy in Im/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 PLD25M output power (25w).





COMPLIANCES

- UL 924 Recognized and Damp Location Listed for field installation
- NFPA 101 (Life Safety Code)
- NFPA 70 (National Electrical Code)
- CEC Title 20 Compliant
 (CEC Battery Charger Efficiency Standard)
- LVLE Output Compliant

WARRANTY

5 Year Full Warranty

Current 🗐

currentlighting.com/dual-lite

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PLD25M

EMERGENCY LED BATTERY PACK

ORDERING GUIDE



PRODUCT DETAILS

OPERATION

The PLD25M emergency LED battery pack is designed to provide a minimum of 90 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 minutes. Lumen output during emergency mode is estimated as described below. Upon restoration of utility power, the PLD25M 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 manual 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 (lm/w).
- b. Lumens can be calculated by multiplying the output power of the emergency LED driver (25W) 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 compatibility 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 20-50VDC
- 2-wire, universal input voltage: 120-277VAC, 50/60Hz operation
- Long life, maintenance-free Lithium Iron Phosphate battery with 5-7 year life expectancy
- Electronic AC lockout and low voltage disconnect (LVD) circuit
- · 4-wire test switch and LED charging indicator supplied standard

INPUT VOLTAGE

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

INPUT POWER 7.0 Watts (maximum)

OUTPUT VOLTAGE 20-50VDC

OUTPUT POWER 25 Watts (constant) OUTPUT CURRENT 1.25A (@20VDC) - 0.5A (@50VDC)

RECHARGE TIME 24 Hours (maximum)

EMERGENCY OPERATION 90 minutes (minimum)

BATTERY Long-Life, Lithium Iron Phosphate, 5-7 years life expectancy

DIMENSIONS

NOMINAL DIMENSIONS: 11.02"L X 2.54"W X 2.35"H



OPERATING TEMPERATURE 10°C - 50°C (50°F - 122°F)

WEIGHT 3.1lbs (1.4kg)

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