

PML-90LED-DP-120

90 Watt LED Permanent Mount Light - Swivels and Pivots - 120V AC

Product ID: 48690

Please see last page for supporting documentation for this product(certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

PML-90LED-DP-120 Spotlight

Lamp Type: Seoul Z-Power LED
Watts: 90

Voltage: 120-277VAC; 9-50VDC

Lighting Configuration: Spot or Flood

Mounting: Flat Surface - Adjustable Tensioners

Wiring: Deutsch Connector on Light, Straight Plug on Converter

Amps: 7.5 Amps @ 120VAC; 7.5 Amps @ 12VDC

Light Color: 6000K

Lumens: 8100 +/- 400 lumens

Vibration tolerance: 8G RMS

LED Life Expectancy: 50,000 hrs

Optics Efficiency: 90%

Materials: Aluminum Housing, Polycarbonate Lens

Dimensions, Lamp Only: 5.5"-W 5.5"-H 4.5"-D

Ratings/Features

IP68 Water & Dust Proof

8G RMS Vibration Tolerance

2100° - 6000K Light Beam

AC or DC Power Options

Ambient Op Temp -45C to 85C

50,000 Hour Service Life

Powder Coat Aluminum Body

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

E-mail: sales@larsonelectronics.com

Buy American Compliant

The Larson Electronics PML-90LED-DP-120 90 Watt LED Spotlight produces 8,100 lumens of intense bright light and offers the versatility of both 120VAC and 12VDC operation from a compact spotlight profile. This permanent mount LED spotlight is equipped with a rugged polycarbonate control handle and tension hinges that allow the

unit to be easily adjusted and set into position and produces a powerful light beam reaching over 2100 feet in length.

This 90 watt LED spotlight contains 9, 10-Watt LEDs producing 8,100 lumens of bright white light while drawing only 7.5 Amps on 12 Volts. The light beam from this unit in spot configuration is approximately 2100' long by 140' in width while an optional flood configuration covers an area approximately 1,200 feet long by 450 feet wide. This unit is IP68 rate waterproof to 3 meters, sealed against ingress of dust and dirt and ideal for use in industrial, commercial and private applications.

The 4 inch square mounting base has 4 corner bolt holes to keep the spotlight secured to the mounting surface under extreme vibration and off-road conditions. Tension hinges incorporated into the mounting assembly allow the light to hold its position once adjusted without the need to set or lock any hardware before releasing the adjusting handle. The operator simply adjusts the unit to the desired position and releases it to set the unit into position.

This unit includes our DCP-11-DP transformer that converts common 120VAC current into 12VDC current, allowing operation of this spotlight from vehicles with 120 AC power sources, indoors or outdoors and anywhere 12 volt DC power is not readily available. The transformer can be easily disconnected and the light connected directly to 12 volt DC power sources as well, adding further versatility and convenience to this spotlight's already versatile design.

This image shows a dark street with no illumination but the distant street lights

[Click Photo to Enlarge](#)

This image shows the LED10W-9S illuminating the street.

[Click Photo to Enlarge](#)

Durability: This series of LED light bars from Larson Electronics offers IP68 rated construction that is designed to withstand demanding environmental and operating conditions. These units can withstand frigid temperatures, are waterproof to three meters and resist ingress of dust, dirt and humidity. The housing on this unit is formed from cast aluminum, the control handle is solid polycarbonate and the lens is unbreakable polycarbonate. The Seoul Z-Power LEDs offer excellent resistance to shocks and vibrations and are rated at 70% lumen maintenance after 50,000 hours of use.

Mounting: This light has a 4 inch square steel mounting plate that is secured to the mounting surface via 4 screws. The mounting assembly on this unit allows the unit to be rotated and adjusted vertically. The adjusting hinges on this light are tensioned, allowing the user to simply position the light as desired without any need for locking the unit into place. Once positioned, the light will hold its position until the user again repositions it.

**PML-90LED-DP-120 35° Flood Beam
(Opt)**

**PML-90LED-DP-120 10° Wide Spot Beam
(Std)**



Power: This light can be operated on either common 120 volt ac power or 12 volt DC current and includes a 25' SOOW Cord to allow the operator to mount the light itself at a different location than the transformer. The transformer included with this unit can operate with voltages within the 90-295VAC range, giving it near universal AC power capability. The inline power transformer has a normal straight plug for connecting to common household type outlets and is connected to the light with a 2 pin Deutsch connector.

The light assembly can be disconnected from the transformer and connected directly to any 9-50VDC power source simply by unplugging it from the Deutsch connector and connecting the unit to the 9-50VDC volt power supply. These units are able to monitor and adjust input current to maintain the correct LED voltage levels regardless of input levels across a specific range and as a result can operate on current ranging from 9 to 50VDC without any modifications necessary.

Note: You will need a matching Deutsch connector to connect this unit directly to 9-50VDC power sources without the transformer.

Frequently Asked Questions (FAQ)

PML-90LED-DP-120

Product ID: 48690

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

PML-90LED-DP-120-Beam Pattern

Example: PML-90LED-DP-120-S

Beam Pattern	
SPOT	-S
FLOOD	-F

Links (Click on the below items to view):

- [Operations Manual](#)
- [Wiring Diagram \(Online\)](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)