Larson Electronics LLC
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LED10W-1S-PDB

Permanent Mount 10 Watt LED Light Emitter on Double Ball Mount - 9-48VDC - 900 Lumen - 225' Spot

Product ID: 49803

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.

LED10W-1S-PDB LED Light

Lamp Type: Seoul Z-Power® LED
Dimensions: 2"W 3.2"-H 2.5"-Depth (head only)
Watts: 10
Led Drive %: 80%
Voltage: 9-48 VDC
Lighting Configuration: 10° Spot or 35° Flood
Mounting: 4"X4" Permanent Mount Plate/Double Ball Joint Mount
Wiring: Deutsch IPD / LADD DT04-2P connector
Amps: .8 (on 12 volts)
Lumens: 900
LED Light Color: 6000K
LED Life Expectancy: 50,000 hours
Optics Efficiency: 90%
Materials: Aluminum Housing, Polycarbonate Lens
Weight: 1lb. 1 Oz.
Housing Colors: Black or White

CE Certified

EN55015 EMI

LED10W-1S-PDB Features

Seoul Z-Power® LED
Low Amp Draw
Multi-Unit Connectable
50,000 Hour Service Life
Shock Vibration Resistant
Ambient Op Temp -45C to 85C
Pin-compatible with the HV9910B
Double Ball Joint Mount
4"X4" Permanent Mount Base

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

EN61547 EMS

EN62471 Photobiological Safety

3 year warranty replacement on this LED light. After 30 days, the customer ships the failed LED light and/or LED bulb to Larson Electronics at their expense. If the failure is a manufacturer defect, we will ship a new replacement to the customer. If failure occurs within 30 days of receipt, Larson Electronics will provide a return label via email to the customer. When the failed light is returned, Larson Electronics will ship a new replacement.

Buy American Compliant

The Larson Electronics LED10W-1S-PDB 10 Watt LED Light with double ball joint mount on a 4" X 4" permanent mount base is recommended for applications where a fixed, adjustable mounting system is desired. The permanent base provides secure, rugged mounting while a double ball joint mount provides the operator with the ability to adjust the unit at various angles while mounted. Adjusting this unit is as easy as loosening the thumb nut on the side of the mount, which allows moving the light head through 360 degrees of rotation and 140 degrees of tilt.

This unit offers a life rating of 50,000 life hours and is compatible with 9 to 48 volts DC. With a 900 lumen rating, this small LED unit provides operators with a versatile and powerful LED lighting solution.

The LED light emitter from Larson Electronics produces 900 lumens of bright light while drawing only 10 watts @ .8 amp from a 12 volt electrical system. A single Seoul Z-Power® 10 watt LED producing 900 lumens is combined with high purity optics to produce a 10 degree spread spot beam approximately 225’ long by 45’ in width. We also offer floodlight versions with a 35 degree beam spread to provide more light over a larger area nearer the fixture, making flood versions ideal for use as work lights.

Our LED10W series of LED lights are waterproof to 3 meters, sealed against intrusion by dust and dirt, and very ruggedly constructed to withstand the most demanding environments, conditions and applications. The small profile, low power requirements, high durability, and versatile adjustable mounting make this LED light ideal for a wide array of applications including but not limited to: military, industrial manufacturing, machine visioning, security and law enforcement, boating, offroading and commercial structure illumination.



This photo shows an open field illuminated only by ambient light at approximately 9:00 pm.

Click Photo to Enlarge



This photo shows the LED10W-1S-PDB in spot mode illuminating the field. The beam reaches the object in the distance positioned at 250 feet.

Click Photo to Enlarge



This particular photo shows the LED10W-1S-PDB in flood configuration. Notice a more abundant amount of light, closer to the fixture.

Click Photo to Enlarge

Heat Management: Heat is the single largest factor in premature LED failure and color shifting. As a result, many manufacturers reduce the output of their LEDs to reduce the amount of heat produced. These LED light bars utilize an extruded aluminum housing that incorporates an advanced heat radiating design which dissipates heat efficiently to produce the maximum amount of power and longevity from the integrated Seoul Z-Power® Emitters. The end result is more light and longer LED life with higher average lumen maintenance after 50,000 hours.

Voltage Control: 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. These LED10W series LED lights can operate on current ranging from 9 to 50VDC without any modifications necessary as a result. This multi-voltage

capability makes these units ideal for mobile and standalone applications such as those found on commercial boats, heavy equipment and vehicles where power systems don't always operate with 12 volts and external generators, transformers or inverters are impractical.

Durability: The LED10W series of LED light bars from Larson Electronics offer IP68 rated construction that is designed to withstand extremes of environmental and operating conditions. These units can withstand frigid temperatures, are waterproof to three meters, and resist ingress of dust, dirt and humidity. The housings are formed from extruded aluminum and the lenses are unbreakable polycarbonate. The Seoul Z-Power® 10 watt LED offers resistance to shocks and vibrations and is rated at 50,000 hours of use.
Mounting: A 4"X4" permanent mount base with 4 through-holes secures this unit to various flat surfaces while a double ball joint mount allows 360 degrees of rotation and 140 degrees of tilt. To adjust this LED unit simply loosen to the thumb bolt located on the side of unit, position the light head as desired, then retighten the thumb screw.
Note: We include a short male plug with 2 wires, stripped and tinned for connection to leads from a power source with the LED10W-1SCB (i.e. vehicle system, battery, etc.).

Most Larson Electronics LEDLB, LEDP3W, LEDP10W, and LED10W series LED spotlights and floodlights are terminated with a Deutsch IPD / LADD DT04-2P connector. The mating connector plug is DT06-2S. Most LEDLB, LEDP10W and LED10W series lights ship with mating connector as part of a harness or pigtail, depending on the model. Some larger LED lights like the LEDLB-160X2 or LEDLB-200X2 or multiple function LED lights (i.e. high/low beam, modulating, IR/Visible combos) will have different Deutsch connectors.
This light can be fitted with our 16ft coil cord, 21 foot straight cord, and a variety of available transformer and connector options listed below.

LEDP10W-1S-PDB 35° Flood Beam (Opt)



LEDP10W-1S-PDB 10° Spot Beam (Stnd)



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Frequently Asked Questions (FAQ)

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LED10W-1S-PDB

Product ID: 49803

Harmonized System (HS) Code: 9405.41.84.10
Export Control Classification Number (ECCN): EAR99

Options:

LED10W-1S-PDB-Finish-Beam Pattern

Example: LED10W-1S-PDB-Black-Spot

Finish	
BLACK	-Black
WHITE	-White

Beam Pattern	
SPOT	-Spot
FLOOD	-Flood

Links (Click on the below items to view):

- **CE Certificate**
- **MSDS (Material Safety Data Sheet**
- **RoHS Certificate (Restriction of Hazardous Substances)**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**