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LED10W-1S

10 Watt LED Light Emitter - 225' Spot Beam - 9-48VDC - 900 Lumen - Stud Mount

Product ID: 48713

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 LED Light

Lamp Type:Seoul Z-Power LED
Dimensions: 2"W 2"-H 2.5"-Depth
Watts: 10
Led Drive %: 80%
Voltage: 9-48 VDC
Lighting Configuration: 10° Spot or 35° Flood
Mounting: Adjustable U-Bracket
Wiring: Deutsch IPD / LADD DT04-2P connector
Amps: 0.83 (on 12 volts)
Lumens: 900
LED Light Color: 6300K
LED Life Expectancy: 50,000 hours
Optics Efficiency: 90%
Materials: Aluminum Housing, Polycarbonate Lens
Weight: 13 Ounces
Housing Colors: Black or White

LED10W-1S Features

Seoul Z-Power LED
Low Amp Draw
Small Size
50,000 Hour Service Life
Shock Vibration Resistant
Ambient Op Temp -45C to 85C
Multi-Unit Connectable

CE Certified

EN55015 EMI
EN61547 EMS
EN62471 Photobiological Safety

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671
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The LED10W1S-B LED Light is ideal for a wide variety of uses including equipment, vehicle, military, law enforcement and industrial manufacturing applications. This unit is a low voltage, led luminaires for outdoor use. This ultra compact LED light produces an 900 lumen output with low voltage and amp draw, 50,000 hour service life and 9 to 48 volt compatibility providing operators with a versatile and powerful LED lighting solution.

The LED10W1S-B LED light emitter from Larson Electronics produces 900 lumens of bright light while drawing only 10 watts @0.83 amps 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 25' in width. We also offer floodlight versions with a 35 degree beam spread to produce a beam 65 feet long by 45 feet wide. This particular unit is ultra compact at only 2 inches wide by 2 inches tall, by 2.5 inches deep, which makes it ideal for marine applications where electrical power and mounting space is at a premium.

Another unique feature of this LED light is that the side brackets enable the operator to connect multiple units together. Thus, operators can combine any number of units to achieve the power and dimensions required for most any application. The LED10W series 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. A small profile, low power requirements, high durability and versatile mounting makes these LED lights ideal for marine use as well as a wide array of applications including but not limited to: military, industrial manufacturing, machine visioning, security and law enforcement, boating, and commercial structure illumination.



This photo shows a road with a street lamp approximately 425` away

Click Photo to Enlarge

This picture shows the LED10W-1S-B in spot mode on the same road

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 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 also 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, the mounting hardware is stainless steel and the lenses are unbreakable polycarbonate. The Seoul Z-Power LEDs offer resistance to shocks and vibrations and are rated at 70% lumen maintenance after 50,000 hours of use.

Mounting: Suspended on top of an adjustable u-bracket, this LED light can be adjusted and tightened into any position to suit your application. A single stud protrudes from the bottom of the u-bracket mount, enabling the operator to install the light using a simple through hole mount. In other words, the light can be installed anywhere a 1/4 inch hole can be drilled.

Note: We include a short male plug with 2 wires, stripped and tinned for connection to leads from a power source with the LED10W-1S (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.

LEDP10W1S-B 35° Flood Beam (Opt)



LEDP10W1S-B 10° Wide Spot Beam (Stnd)



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Frequently Asked Questions (FAQ)

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LED10W-1S

Product ID: 48713

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

Options:

LED10W-1S-Finish-Beam Pattern

Example: LED10W-1S-Black-S

Finish	
BLACK	-Black
WHITE	-White

Beam Pattern	
SPOT	-S
FLOOD	-F

Links (Click on the below items to view):

- **CE Certificate**
- **Dimensional Drawing 2D**
- **MSDS (Material Safety Data Sheet**
- **RoHS Certificate (Restriction of Hazardous Substances)**
- **STEP File (3D CAD Model)**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **Video1**
- **Video2**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**