Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

LED10W-1S

LED Light - 10 watts - 1 X 10 Watt - 900 Lumens - 2 inch square - stud mount - 9-48VDC

Product ID: 2046

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® LEDs
Dimensions: 2"W 3.2"-H 2.5"-Depth
Watts: 10
Led Drive %: 80%
Voltage: 9-48 VDC
Spot Beam: 225`L x 25`W
Flood Beam: 45`L x 40`W
Lighting Configuration: 10° Spot or 35° Flood
Mounting: Adjustable U-Bracket
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: 13 Ounces
Housing Colors: Black or White

LED10W-1S Features

Seoul Z-Power® LEDs
Low Amp Draw
Small Size
50,000 Hour Service Life
Shock Vibration Resistant
Ambient Op Temp -45C to 85C
Pin-compatible with the HV9910B
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
Intl: 1-903-270-1187
E-mail: sales@larsonelectronics.com

Buy American Compliant

The LED10W-1S LED Light is ideal for a wide variety of uses including equipment, vehicle, military, law enforcement and industrial manufacturing

applications. This ultra compact LED light produces a 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 LED10W-1S 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. This particular unit is ultra compact at only 2 inches wide by 3.2 inches tall, by 2.5 inches deep, which makes it ideal for 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 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`.

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



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

Click Photo to Enlarge | Click Photo to Enlarge | Click Photo to Enlarge



Click Photo to Enlarge | Click Photo to Enlarge | 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 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 and the lenses are unbreakable polycarbonate. The CREE XLamp® 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.

LEDP10W-1S 35° Flood Beam (Opt)



LEDP10W-1S 10° Wide Spot Beam (Stnd)



Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

Frequently Asked Questions (FAQ)


D610.725
329192







Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

LED10W-1S

Product ID: 2046

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

Options:

LED10W-1S-Color-Beam Type

Example: LED10W-1S-BLK-SP

Color	
BLACK	-BLK
WHITE	-WHT

Beam Type	
SPOT	-SP
FLOOD	-FL

Links (Click on the below items to view):

- Dimensional Drawing 2D
- Operations Manual
- STEP File (3D CAD Model)
- HigResPic1
- HigResPic2
- HigResPic3
- HigResPic4
- HigResPic5
- HigResPic6
- HigResPic7
- HigResPic8
- HigResPic9
- HigResPic10
- Video1
- Video2
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map