

LEDP5W-12C

High Intensity - LED Light Bar - 12, 5-Watt LEDs - 5,556 Lumens - Extreme Durability

Product ID: 105403

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.

LEDP5W-12C LED Light Bar

Lamp Type: CREE XLamp XPG® LED

Dimensions: 3.9"-W 2"-D 5.5"-H

Watts: 60

Led Drive %: 90%

Voltage: 9-46 VDC

Lighting Configuration: 30° and 60° Elliptical Beam

Mounting: Stud- Adjustable Trunnion Pin

Wiring: Deutsch IPD / LADD DT04-2P connector

Amps: 5 (on 12 volts) 2.5 on 24 Volts

Lumens: 5556

LED Light Color: Amber

LED Life Expectancy: 50,000 hours

Optics Efficiency: 90%

Materials: Aluminum Housing, Polycarbonate Lens

Housing Colors: Black or White

Internal LED Driver Features

Fast average current control

Programmable off-time switching

Linear dimming input

PWM dimming input

Short protection w/Skip mode

Ambient Op Temp -40C to +125C

Pin-compatible with the HV9910B

[View Avg-Mode Driver Control PDF](#)

CE Certified

Special Orders - Special Requirements

Contact us for special requirements

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The LEDP5W-12C LED Light Bar offers high light output from a compact form factor and is designed specifically for extreme durability in high stress operating conditions. This amber colored 60 watt light bar produces 5,556 lumens and is designed to

withstand sustained heavy vibration making it ideal for mounting on machinery or equipment and well suited for use in mining, manufacturing and industrial environments where durability is critical.

The LEDP5W-12C LED light bar from Larson Electronics produces 5,556 lumens of bright light while drawing only 60 watts @ 5 amps from a 12 volt electrical system. Twelve CREE XLamp XPG® five watt LEDs producing 525 lumens each with a combination of 30° and 60° elliptical beam. This LED light bar is designed to withstand extreme vibratory conditions and is waterproof to 3 meters, sealed against intrusion by dust and dirt and built to survive use in the most demanding environments.

An integral pulse width modulation controller, small profile, low power requirements, extreme durability and versatile mounting system makes this LED light emitter a superior lighting solution for a wide array of applications including but not limited to: mining, military, industrial manufacturing, machine visioning, boating, vehicle and commercial equipment illumination.

Heat Management: Heat is the single largest factor in premature LED failure and color shifting. These LED units contain advanced drivers which use pulse width modulation to control heat buildup rather than simple voltage regulators which are typically harsh on sensitive electronics and can contribute to early LED failure. These units automatically sense the temperature of each LED and adjust the energy frequency or "duty cycle" accordingly to maintain heat levels within acceptable ranges. This system in essence flashes current at an extremely fast on and off rate to each LED based upon the LED's core temperature. This flash rate is too fast to detect with the human eye, but provides precise control of the current flowing to each LED and thus the heat it generates. This allows the LEDs to be driven at up to 100% capacity without overheating or visible loss of light output. The LEDs are always driven at the same voltage but the duty cycle, however, is changed to alter how long the LEDs are actually on or off. The end result is more light with less heat and longer LED life with an average 70% lumen maintenance after 50,000 hours.

PWM Control: The pulse width modulation drivers in this unit also provide secondary benefits through the ability to tap into a provided input wire with an external pulse generator and adjust the duty cycle of the current being applied to the LEDs. Thus you can connect an external dimmer, switch or pulse control and adjust the perceived output of the light, effectively causing the light to flash, dim or brighten to the desired levels. Additionally, this method of controlling light output results in a corresponding drop in amperage draw, so if the duty cycle is cut back to 50% there will be a matching 50% reduction in amperage draw. These units are also able to monitor and adjust input current to maintain the correct LED voltage levels regardless of input levels across a specific range. These LEDP5W series light bars can operate on current ranging from 9 to 46VDC without any modifications necessary as a result. This ability to sense and adjust input current also provides protection against voltage spikes and drops that can occur in vehicle electrical systems which would otherwise result in burning up or premature LED failure without it.

Durability: As well as unparalleled heat control, the LEDP5W 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 rapid temperature changes of -40 degrees Celsius to 85 degrees Celsius, 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 XPG® LEDs offer resistance to shocks and vibrations and are rated at 70% lumen maintenance after 50,000 hours of use. [See the vibration and shock test results for the LEDP5 series here.](#)

Mounting: This lamp is equipped with a special shock absorbing 4t PO metal base to allow secure mounting to most surfaces. This lamp is also available with optional trunnion mounting which adds a wider degree of vertical angle adjustment. For increased adjustability please see our [trunnion mounted versions](#)

which add a wider degree of vertical angle adjustment.

Note: 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.



Frequently Asked Questions (FAQ)

LEDP5W-12C

Product ID: 105403

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

LEDP5W-12C-Finish

Example: LEDP5W-12C-BLK

Finish	
BLACK	-BLK
WHITE	-WHT

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](#)