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High Intensity LED Mining Light - 300 Watts - 60 LEDs - 29,580 Lumens - 120-277V AC

Part #: LEDP5W-60-1227

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The LEDP5W-60-1227 LED Mining Light offers high output from a compact form factor and is ideal for use in mining applications as well as heavy equipment, hunting, boating, vehicle, military, law enforcement and industrial manufacturing uses. A 29,580 lumen output, 2.5 amp draw, 50,000 hour service life and 24 volt compatibility provides mine operators with a rugged and powerful LED alternative to 1000 watt metal halide lamps that uses little power and can withstand rugged use and abusive mining conditions.

The LEDP5W-60-1227 LED mining light from Magnalight produces 29,580 lumens of high intensity light while drawing only 300 watts @2.5 amps from a 120 volt electrical system. Sixty CREE XLamp XPG® five watt LEDs producing 493 lumens each are arranged in rows and paired with high purity optics to produce a well focused 25 degree spot beam that is ideal for providing far reaching concentrated illumination while still covering a substantial amount of area. We also offer optional floodlight versions with a 60 degree beam spread to provide more light over a larger area nearer the fixture, making flood versions ideal for use as dedicated work and area lights. These LED mining light bars are waterproof to 3 meters, sealed against intrusion by dust and dirt, and very ruggedly constructed to withstand the most demanding mining environments, conditions and applications.

LEDP5W-60-1227 mining lights are ideal replacements for fragile and hot running 1000 watt metal halide lamps. They offer Pulse Width Modulation control, a small profile, low power requirements, high durability and a versatile mounting system that makes these LED light emitters a superior lighting solution for mining applications where power and reliability is critical. The heavy duty design and high power of these mining lights also makes them suitable for a wide array of applications including but not limited to: military, industrial manufacturing, machine visioning, security and law enforcement, boating, vehicles and commercial structure illumination.

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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 90% 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 automatically monitor and adjust input current to maintain the correct LED voltage levels regardless of input levels across a specific range. These LEDP5W-60-1227 light bars can operate on current ranging from 120 to 277VAC 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-60 series of LED mining lights from Magnalight 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 80 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 help these units achieve 15.6Grms rated resistance to vibrations and are rated at 70% lumen maintenance after 50,0000 hours of use. We recommend these LED lights for use in applications where a lot of vibration, dust, dirt, dampness and abusive working conditions are encountered.
Mounting: Each unit is equipped with an innovative trunnion style mounting bracket that allows the light to be attached to flat surfaces and adjusted through 360 degrees of vertical movement. To adjust the unit after mounting, the user simply loosens the thumb screws located on either side of the unit, moves it into the desired position, then retightens the screws. The base of the mounting trunnion is equipped with several machined slots which allow users to utilize existing mounting holes and slide the unit for precise mount positioning.
Note: Most Magnalight LEDP5W, 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 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.

Specifications / Additional Information

LEDPM5W-60-1227 LED Mining Light Bar

Lamp Type: CREE XLamp-XPG® LED

Dimensions: 22.69 "-L 22.69"-H 4.94"-D

Watts: 300

Led Drive %: 90%

Voltage:120-277 VAC

Lighting Configuration: 25° Spot or 60° Flood

Mounting: Flat Surface 360 Degree Vertical Adjustable

Wiring: Deutsch IPD / LADD DT04-2P connector

Amps: 2.5 (on 120 volts)

Lumens: 29,580

LED Light Color: White

LED Life Expectancy: 50,000 hours

Optics Efficiency: 90%

Materials: Aluminum Housing, Polycarbonate Lens

Housing Colors: Black

Weight: 35 Lbs

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' Magnalight 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 Magnalight will provide a return label via email to the customer. When the failed light is returned, Magnalight will ship a new replacement.

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Part #: LEDP5W-60-1227 (50864)

Internal LED Driver Features

Automatic Current Sensing and Adjusting 12/24VDC

Active Heat Management

Ambient Op Temp -40C to +80C

Special Orders- Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-498-3363

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