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LEDWL-PAR36

18W PAR36 LED Driving Light - 1800 Lumens - 10-30V DC - IP67 Waterproof - Surface Mount

Product ID: 147047

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.

LEDWL-PAR36 18W PAR36 LED Driving Light
Lamp Type: PAR36 LE
Dimensions:4.56" x 2.59" x 5.11"
Total Watts: 18W
Watts Per Bulb: 3W (6)
Voltage: 10-30V DC
Current: 1.5A @ 12V /0.75A @ 24V
Lumens: 1,800
Beam Configuration: 90° Flood
Color Temperature Options: 3000K, 4500K or 6000K
LED Life Expectancy: 50,000+ hours
Ambient Operating Temp Range: -20°C to +60°C
Housing Material: Aluminum
Lens Material: Polycarbonate
Mount: Surface Mount
Weight: 5 lbs

Ratings/Approvals
IP67 Waterproof
Shockproof
Cooling Ribs for Heat Dissipation

Special Orders - Special Requirements
Contact us for special requirements

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The LEDWL-PAR36 from Larson Electronics is a PAR36 LED Driving Light that is suitable for vehicle lighting systems, off-roading, trucking, forklifts, military applications, emergency fleets and more. This 18-watt luminary consists of six, three-watt LEDs, which is capable of emitting 1,800 lumens in a flood beam configuration with color temperature

options of 3000K, 4500K or 6000K. Operators may mount the low voltage unit on any compatible surface and use the light in rainy (IP67 waterproof) or rough environments.

The LEDWL-PAR36 is a compact lighting solution for a wide range of vehicles. This PAR36 LED lamp operates on 10-30V DC, including 12V DC and 24V DC. When in use, the luminary emits 1,800 lumens in a flood beam configuration with color temperature options of 3000K, 4500K or 6000K.. A total of six, three-watt LEDs can be found inside the unit. Cooling ribs located behind the lamp helps regulate the operating temperature of the luminary. The PAR36 LED Driving Light is constructed of sturdy aluminum with a clear, polycarbonate lens for close range illumination. This luminary is IP67 waterproof and shockproof. Operators may mount the light on compatible surfaces using a surface mount mechanism.

LED Benefits: Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation and/or transportation. Instead of heating a small filament or using a combination of gases to produce light, light emitting diodes (LEDs) use semi-conductive materials that illuminate when electric current is applied, providing instant illumination with no warm up or cool down time before re-striking. Because there is no warm up period, this light can be cycled on and off with no reduction in lamp life.

LED lights run at significantly cooler temperatures than traditional metal halide and high pressure sodium lights and contain no harmful gases, vapors, or mercury, making them both safer and more energy efficient. No extra energy is wasted in cooling enclosed work areas due to external heat emissions from bulb type lights, and the operator risks associated with traditional lighting methods, such as accidental burns and exposure to hazardous substances contained in the glass bulbs, are eliminated. In addition, LEDs are also safer for the environment as they are 100% recyclable, which eliminates the need for costly special disposal services required with traditional gas burning and arc type lamps.

High Quality Features

1. Low power consumption.
2. Instant on/off operation.
3. Superior color rendering compared to HPS, LPS, MH.
4. Solid-state design.
5. Low profile - light weight.
6. 1,800 lumen output from 18 watts.
7. Color temperature options of 3000K, 4500K or 6000K.

Superior LED Benefits

1. 50,000+ hour lifespan.
2. Can SAVE 50% or more on energy.
3. Qualifies retrofit projects for financial incentives, including utility rebates, tax credits and energy loan programs.
4. Reduces energy use and prolongs life-spans of peripheral cooling units (A/C, refrigeration)
5. 100% recyclable.
6. No toxins-lead, mercury.
7. No UV light, infrared radiation or CO2 emissions.
8. Qualifies buildings for LED and other sustainable business certifications.
9. Bright, even light maintains consistent color over time.
10. Instant on/off - No flickering, delays or buzzing.
11. Very good color rendering.
12. Vibration/impact resistant.
13. Significantly cooler operation.
14. Less frequent outages, higher output improves workplace safety.

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.

Voltage: The drivers in this unit provide 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 LED lights can operate on current ranging from 10 to 30V DC without any modifications necessary as a result. (347-480V AC and 120-277V AC available upon request). This ability to sense and adjust input current also provides protection against voltage spikes and drops that can occur in electrical systems which would otherwise result in burning up or premature LED failure without it.

Durability: As well as unparalleled heat control, the LEDP WRE series of LED lights 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 XM-L® LEDs offer resistance to shocks and vibrations and are rated at 70% lumen maintenance after 50,0000 hours of use.

Applications: Off-roading, cars, trucks, work area lighting, vehicle lighting systems, outdoor illumination, forklifts, trains, buses, tanks, emergency fleets, law enforcement, communication vehicle, military command vehicle and more.

At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

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Frequently Asked Questions (FAQ)

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LEDWL-PAR36

Product ID: 147047

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

LEDWL-PAR36-Color Temp

Example: LEDWL-PAR36-30K

Color Temp	
3000K	-30K
4500K	-45K
6000K	-60K

Links (Click on the below items to view):

- **Dimensional Drawing 2D**
- **Operations Manual**
- **STEP File (3D CAD Model)**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**