Larson Electronics LLC
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LED40W-PAR46

LED PAR 46 Bulb - Replaces standard PAR 46 Incandescent Bulb - 4 X 10 Watt LEDs - 3600 Lumen

Product ID: 47194

Please see last page for supporting documentation for this product (certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Image: LED40W-PAR46

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.

LED40W-PAR46 Replacement LED Bulb

Voltage: 9-46V DC
Dimensions: Par46 6"-Diam
Amps: 4
Watts: 40 watts
Materials: Aluminum Body, Polycarbonate Lens
Beam Configuration: 10° spot OR 35° flood
Beam Color: Visible- White (6000K), Blue, Green, Red, Amber; IR-850 NM, 940Nm
Lamp Life Expectancy: 50,000+ Hours
Lamp Type: LED
Operating Temp: -40°C to 80°C
Total Lumens: 3600
Lumens per Watt: 90 Lm/W
Total Weight: 2 lbs
Wiring: Deutsch IPD / LADD DT04-2P Connector

Ratings/Approvals:

MilSpec 461 Certified
Army part #12543890
Match for- 12 volt GE 4419, 4453, H7635, H7680
Match for- 24 volt GE 4551 or Wagner 4579

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 LED40W-PAR46 from Larson Electronics is a 40 Watt Par 46 Replacement LED Bulb that is an excellent choice for upgrading existing PAR 46 incandescent bulb fixtures to LEDs as well as a direct replacement for our own LED light fixtures.

Government Part Number 12543890 (US Army). MILSPEC 461 certified.

This 40 watt LED bulb is a direct replacement for incandescent Par46 bulbs and produces 3600 lumens of light with a color temperature of 6000k in white configuration. Also available in red, blue, green, amber, 850Nm and 940Nm infrared colors, this Par46 LED bulb has performance comparable to most incandescent Par46 bulbs. Capable of operating with voltages of 9 to 46 VDC. This 40 watt Par46 LED is an ideal replacement or upgrade for pre-existing, semi-permanent mount and handheld military lighting fixtures and spotlights as well as aircraft, security and industrial applications utilizing Par46 lamps.

This Par46 LED bulb provides numerous benefits and advantages over traditional incandescent lamps in that it is highly resistant to damage from shocks and vibration as well as up to 80% more efficient. The LEDs in this unit have an average lifespan rating of 50,000 hours, which reduces the costs and loss of productivity associated with maintaining and replacing traditional lamps. Producing 3600 lumens while drawing only 4 amps, this LED lamp easily outperforms 100 watt incandescent bulbs while drawing only half as many amps. There is no glass or filaments used in the construction of this LEB bulb and the aluminum body and solid state design of the LEDs results in a lamp that is as rugged as it is efficient.

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.



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

Compatibility: The LED40W-PAR46 is certified Mil Spec 461 for EMI and is listed under Army part #12543890. This Par46 LED lamp is a direct replacement for incandescent Par46 bulbs and operates with 9 to 46V DC, making it suitable for use in vehicles, military transports, aircraft, boats and any equipment or vehicle that operates with 9-46 VDC electrical current. This lamp is also suitable for use in portable and semi-permanent mount applications requiring a Par46 lamp capable of operating with DC current. 6 inches in diameter and containing four 10 watt LEDs, this LED lamp produces as much or more light as a comparable 100 watt Par46 spotlight but does not produce as tight of a beam.

Durability/Versatility: The aluminum housing and polycarbonate lens provides unparalleled durability and longevity, allowing this lamp to withstand conditions and use that would cause ordinary incandescent lamps to fail prematurely. This Par46 LED light is also available in infrared configuration for covert operations use and can be ordered in either 850Nm for use with most older and more common night vision equipment and 940Nm versions for use with the latest in military night vision technology. Infrared versions produce no visible light and can only be seen with night vision equipment and devices designed to work with light in the infrared spectrum.



Click Photo to Enlarge



Click Photo to Enlarge

Also available are red, blue, green and amber versions, allowing operators to utilize these LEDs in equipment designed for emergency, signaling, warning and other applications. Colored versions of these lamps provide additional benefits over incandescent lamps because there are no colored filters or lenses used to produce colored light with these LED lamps. Instead, specific LED chip materials are utilized to produce pure light in the desired color spectrum without any of the loss of output normally associated with lenses, resulting in more and purer light production. Additionally, there is no light degradation from the lens discoloration and clouding that normally occurs over the life of lamps with colored plastic lenses.

Note: The Larson Electronics LED40W-PAR46 replacement LED bulbs 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.

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)

There are no Faqs

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LED40W-PAR46

Product ID: 47194

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

Options:

LED40W-PAR46-Light Color-Housing Color-Beam Config
Example: LED40W-PAR46-WHT6-Alu-SP

Light Color	
WHITE6000	-WHT6
RED	-RED
GREEN	-GRN
BLUE	-BLU
AMBER	-AMB
IR850	-IR850
IR940	-IR940

Housing Color	
ALUMINUM	-Alu
BLACK	-Blk

Beam Config	
SPOT	-SP
FLOOD	-FL

Links (Click on the below items to view):

- **Beam Information (Coverage, Datafile)**(https://www.larsonelectronics.com/images/product/BeamInfo/47194.PDF)
- **CE Certificate**(https://www.larsonelectronics.com/images/product/CECert/47194.PDF)
- **Dimensional Drawing 2D**(https://www.larsonelectronics.com/images/product/DimensionalDrawing/47194.PDF)
- **IES (Photometric File)**(https://www.larsonelectronics.com/images/product/ies/47194.ZIP)
- **Military Specification Certificate 1**(https://www.larsonelectronics.com/images/product/Milspec1/47194.PDF)
- **Operations Manual**(https://www.larsonelectronics.com/images/product/Manual/47194.PDF)
- **RoHS Certificate (Restriction of Hazardous Substances)**(https://www.larsonelectronics.com/images/product/RoHSCert/47194.PDF)
- **SpecSheetSpanish**(https://www.larsonelectronics.com/images/product/SpecSheetSpanish/47194.PDF)
- **STEP File (3D CAD Model)**(https://www.larsonelectronics.com/images/product/Step/47194.ZIP)
- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/47194.JPG)
- **HigResPic2**(https://www.larsonelectronics.com/images/product/HigResPic2/47194.JPG)
- **HigResPic3**(https://www.larsonelectronics.com/images/product/HigResPic3/47194.JPG)
- **HigResPic4**(https://www.larsonelectronics.com/images/product/HigResPic4/47194.JPG)
- **HigResPic5**(https://www.larsonelectronics.com/images/product/HigResPic5/47194.JPG)
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- **HigResPic7**(https://www.larsonelectronics.com/images/product/HigResPic7/47194.JPG)
- **HigResPic8**(https://www.larsonelectronics.com/images/product/HigResPic8/47194.JPG)
- **HigResPic9**(https://www.larsonelectronics.com/images/product/HigResPic9/47194.JPG)
- **HigResPic10**(https://www.larsonelectronics.com/images/product/HigResPic10/47194.JPG)
- **Video1**(http://www.youtube.com/watch?v=zUIAGGCBwxo)
- **Video2**(http://www.youtube.com/watch?v=vYU-A6uj_Sw)
- **ISO 9001 Certification**(http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF)
- **Business Certificate**(https://www.larsonelectronics.com/images/pdfdocs/w9.PDF)
- **Shipping Time Map**(https://www.larsonelectronics.com/images/product/ShippingTimeMap/ShippingTimeMap.pdf)