

DCP-60-48V-100A

4800W Power Supply - 100-277V AC Input, 48V DC Output - 100A Max Output

Product ID: 305993



Image: DCP-60-48V-100A

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.

DCP-60-48V-100A Power Converter

Line In Voltage: 100-277 V AC @ 47~63 hz

Line Out: 48 V DC @ 100 Amps

Watts: 4800W

AC Input Connector: 1' Pigtail, Stripped/Tinned Leads

DC Output Connector: 1' Pigtail, Stripped/Tinned Leads

Protection: Short Circuit/Overload/ Over Voltage/Over Temperature

Mounting: Two Screw Slide Notches

Operating Temp: -40°C - +90°C

Efficiency: 90%

Dimensions: 10.3"-L x 4.92"-W x 1.72"-D

Weight: 6.17 lb

Features

IP67 Rated Waterproof

Overload, Short Circuit, Over Voltage, Over Temperature Protection

NRTL Certified to UL1012

NRTL Certified to UL60950-1

International Lighting Safety Standards Compliant

Suitable For LED Moving Signs

Suitable For Wet or Damp Locations

Special Orders - Special Requirements

Contact us for special requirements

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The DCP-60-48V-100A from Larson Electronics is a Waterproof Power Supply that converts commonly used 120 - 240 V AC electrical current to 48 V DC @ 100 Amps. This converter is designed to be hardwired into building, boat, or vehicle electrical supplies where the voltage is typically within the 100-277 V AC range and reduces it to 48 V DC, allowing users to use standard AC power to operate equipment like our LED light bars and spotlights that require 48 V DC current.

The DCP-60-48V-100A power converter provides a safe and effective way for users to tap into and utilize common 120 to 240 Volt AC power sources and convert this current to 48 Volts DC for use with equipment that requires 48 volt DC electrical power. This unit can be operated with input current ranging from 100 to 277 V AC and will output 4,800-watt 48 Volt DC current. This power converter features an IP67 rated waterproof design, making it suitable for indoor or outdoor use and is wet-damp area approved. This converter includes integral short circuit, over voltage, over temperature and overload protection that will shut down the unit or reduce output in case of faults and overloads to protect the unit and connected equipment from damage.

The small size and wide input voltage range of this unit make it ideal for indoor-outdoor operation of Larson Electronics LED light bars and other equipment that requires 42 V DC current and anywhere 48 volt DC power is not readily available. The unit is mounted with two conventional screws via slots that allow removal and repositioning simply by loosening the screws.

This converter comes with clearly labeled input and output leads that are approximately 1 foot long and stripped and tinned for hardwired connections using butt splice connectors, wire screws, plates, etc.

This power converter has a -40°C - +90°C operating temperature range and is NRTL certified to UL 1012 and UL 60950-1 standards as well as compliant with worldwide safety regulations for lighting. This unit has a 90% conversion efficiency and is suitable for use with moving LED signs and similar LED equipment. These units also feature Power Factor Correction, adjustable output current range from 8 ~ 16 A either through the output cable or internal potential meter and have an input frequency range of 47 ~ 63Hz.

NOTE: In order to obtain the best performance and the longest operational life from these units, it is recommended that you do not exceed 75% of the unit's output amperage. To determine if this converter suits your desired application, add together the total wattage of the equipment you intend to use with this unit and divide this total by 42 volts to find the total amperage draw that will be placed upon the converter. Running these units at 100% of their capacity can create excess heat and lead to shortened converter life.

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