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DCP-75-24V

Waterproof Transfomer Converts 120V AC to 24 Volts DC - Capacity to 75 amps

Product ID: 306998

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

Image: DCP-75-24V

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-75-24V Power Converter

Line In Voltage: 115-125VAC @47~63 hz

Line Out: 24VDC @ 75 Amps

Watts: 1800W
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: -30 / +60C
Efficiency: 93%
Dimensions: 9.6"-L 2.6"-W 1.5"-D
Weight: 1lbs

DCP-10-24V Features

IP67 Rated Waterproof
Overload, Short Circuit ,Over Voltage, Over Temperature Protection
UL1012 Compliant
UL60950-1 Compliant
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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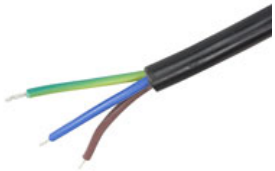
The Larson Electronics DCP-75-24V Waterproof Power Supply converts commonly used 115-125VAC electrical current to 24VDC @ 75 Amps. This converter is designed to be hardwired into building, boat or vehicle electrical supplies and takes voltages within the

115-125VAC range and reduces it to 24VDC, allowing users to use standard AC power to operate equipment like our LED light bars and HID Golights that require 12 Volts DC.

The DCP-75-24V 1800 watt power converter provides a safe and effective way for users to tap into and utilize common 115 to 125 Volt AC power sources and convert this current to 24 Volts DC for use with equipment that requires 24 volt electrical power. This unit can be operated with input current ranging from 115 to 125 VAC and will output 1800 watt 24 Volt DC current at 75 amps. 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.

Click Photo to Enlarge



Click Photo to Enlarge

The small size and wide input voltage range of this unit make it ideal for indoor-outdoor operation of Larson Electronics LED light bars, Golights and other equipment that requires 24VDC current and anywhere 24 volt DC power is not readily available. Measuring 9.6 inches long by 2.6 inches wide by 1.5 inches deep, this unit weighs approximately one pound and 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.

Features: The DCP-75-24V 192 watt converter features full range, universal AC input capability and can be operated with 100 to 277VAC. The unit converts this AC power input to 192 watt, 75 Amp 24VDC output. IP67 rated, this unit is waterproof, wet and damp area approved and suitable for indoor or outdoor applications. Integrally designed protection includes overload, short circuit, over temperature and over voltage safeguards to prevent overheating and unit damage in case of faults or overly heavy current draw. This unit will limit current when an over current condition is encountered and recovers when the condition is removed. This unit will enter hiccup mode under short circuit conditions and recover when the fault is removed. The unit will also shut down when an over temperature condition occurs and recovers automatically when the temperature returns to normal levels.

This power converter has a -30 / +60C operating temperature range and is UL UL1012 and UL60950-1 compliant as well as compliant with worldwide safety regulations for lighting. This unit has a 93% 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 5~ 10A 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 12 volts to find the total amperage draw that will be placed upon the converter. For example, if you are using two of our LEDP10W-60E 60 watt LED lights, 120 watts divided by 24 volts is 5 amps. This would mean the DCP-75-24V is well suited as it would run at 50% capacity to produce the necessary 5 amps. Running these units at 100% of their capacity can create excess heat and lead to shortened converter life.

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Frequently Asked Questions (FAQ)

There are no Faqs

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