Larson Electronics LLC
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DCP-5

Waterproof DC Power Supply Converts 110-277V AC Power to 12 or 24 Volts DC for Lights

Product ID: 1650

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



Image: DCP-5

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-5-12V Power Converter

Line In Voltage: 100-277VAC @47-63 hz
Line Out: 12V DC @5 Amps or 24V DC @ 2.5 Amps
Watts: 48
Dimensions: 6.74"L x 2.43"W x 1.45"H
Weight: 2.5 lbs
AC Input Connector: 1` Pigtail, Stripped/Tinned Leads
DC Output Connector: 1` Pigtail, Stripped/Tinned Leads
Protection: Short Circuit/Overload/ Over Voltage
Mounting: Two Screw Slide Notches
Operating Temp: -20 / +60C
Efficiency: 85%

DCP-5-12V Features

IP64 Rated Waterproof
Overload,Short Circuit,Over Voltage Protection
UL1310 Class 2 Rated
CAN/CSA C22.2 No. 223-M91
Suitable For LED Moving Signs

Special Orders- Requirements

Contact us for special requirements

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The Larson Electronics DCP-5-12V Waterproof Power Supply converts commonly used 100-277VAC electrical current to 12VDC @5 Amps. This converter is designed to be hardwired into home, boat or vehicle electrical supplies where the voltage is typically within the 100-277VAC range and reduces it to 12VDC, allowing users to operate equipment like our LED and HID lights that require 12 Volt DC current from standard AC power.

The DCP-5-12V 48 watt power converter provides a safe and effective way for users to tap into and utilize 100-277 Volt AC power sources and convert this current to 12 Volts DC for use with equipment that requires 12 volt electrical power. This unit can be operated with input current ranging from 100 to 277 VAC and will output 12 Volt DC current at 5 amps. This power converter features an IP64 rated waterproof design, making it suitable for indoor or outdoor use and includes integral short circuit and overload protection that will shut down the unit in case of faults and overloads to protect the unit and connected equipment from damage.

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. The small size and wide input voltage range of this unit make it ideal for operating Larson Electronics LED light bars, Golights and other equipment that requires 12VDC current indoors and anywhere 12 volt DC power is not readily available.

Measuring 7 inches long by 2.5 inches wide by 1.5 inches deep, this unit weighs less than one pound and is mounted with two conventional screws via slots that allow removal and repositioning simply by loosening the screws.

The DCP-5-12V 48 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 48 watt, 5 Amp 12VDC output. IP64 rated, this unit is waterproof and suitable for indoor or outdoor applications. Integrally designed protection includes overload, short circuit and over voltage safeguards to prevent overheating and unit damage in case of faults or overly heavy current draw. This unit will shut down when an over current fault is encountered and automatically resume operation once the fault is repaired or removed. When an over voltage condition is encountered the unit will shut down and recovers when manually turned back on.

This power converter has a -20 / +60C operating temperature range and is UL 1310 Class 2 and CAN/CSA C22.2 No. 223-M91 rated. This unit has an 85% conversion efficiency and is suitable for use with moving LED signs and similar LED equipment.

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 our LEDP10W-60E 60 watt LED light, 60 watts divided by 12 volts is 5 amps. This would mean the DCP-5 is not suitable as it would run at 100% capacity to produce the necessary 5 amps and run hotter, leading to reduced converter life. Thus, a higher rated converter like our DCP-11-12V would be a better choice.

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Frequently Asked Questions (FAQ)

There are no Faqs

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DCP-5

Product ID: 1650

Export Control Classification Number (ECCN): EAR99

Options:

DCP-5-Voltage
Example: DCP-5-12V

Voltage	
12V DC	-12V
24V DC	-24V

Links (Click on the below items to view):

- **CE Certificate**(https://www.larsonelectronics.com/images/product/CECert/1650.PDF)
- **Certificate 1, Misc**(https://www.larsonelectronics.com/images/product/Cert1/1650.PDF)
- **Certificate 2, Misc**(https://www.larsonelectronics.com/images/product/Cert2/1650.PDF)
- **Certificate 3, Misc**(https://www.larsonelectronics.com/images/product/Cert3/1650.PDF)
- **Dimensional Drawing 2D**(https://www.larsonelectronics.com/images/product/DimensionalDrawing/1650.PDF)
- **MSDS (Material Safety Data Sheet**(https://www.larsonelectronics.com/images/product/Msds/1650.PDF)
- **Operations Manual**(https://www.larsonelectronics.com/images/product/Manual/1650.PDF)
- **RoHS Certificate (Restriction of Hazardous Substances)**(https://www.larsonelectronics.com/images/product/RoHSCert/1650.PDF)
- **Wiring Diagram**(https://www.larsonelectronics.com/images/product/WiringDiagram/1650.PDF)
- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/1650.JPG)
- **HigResPic2**(https://www.larsonelectronics.com/images/product/HigResPic2/1650.JPG)
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