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DCP-100-1.5V-DP-WP

Waterproof Transformer Converts 120V AC to 1-5 Volts DC - 100 Amps Max

Product ID: 321252

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

Image: DCP-100-1.5V-DP-WP

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-100-1.5V-DP-WP Power Converter

Line In Voltage: 120V AC @ 47~63 hz

Line Out: 1-5VDC @ 100 Amps

Watts: 500
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: 90%
Dimensions: 9.6"-L 2.5"-W 1.5"-D
Weight: 1 Lbs

DCP-100-1.5V-DP-WP 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-100-1.5V-DP-WP Waterproof Power Supply converts commonly used 120VAC electrical current to 1-5V DC @ 100 Amps. This converter is designed to be hardwired into building, boat or vehicle electrical supplies where the

voltage is typically 120V AC and reduces it to 1-5V DC, allowing users to use standard AC power to operate equipment like our LED light bars and HID Golights that require low voltage DC.

The DCP-100-1.5V-DP-WP 500 watt power converter provides a safe and effective way for users to tap into and utilize common 120 Volt AC power sources and convert this current to adjustable 1-5 Volts DC for use with equipment that requires low voltage DC electrical power. This unit can be operated with input current from a 120V AC source and will output up to 500 watts of 1-5 Volt DC current at 100 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.

The compact size and heavy-duty output of this unit make it ideal for indoor-outdoor operation of low-voltage, high-current equipment and anywhere 1-5V DC power is not readily available. Measuring approximately [insert dimensions] and weighing [insert weight], this unit is mounted with 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-100-1.5V-DP-WP 500 watt converter features full range AC input capability at 120V and converts this AC power to adjustable 1-5V DC at up to 100 amps. 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°C to +60°C 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 90% conversion efficiency and is suitable for use with moving LED signs and similar LED equipment. These units 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 during continuous use. 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 your selected output voltage (1-5V) to find the total amperage draw that will be placed upon the converter. For example, if your equipment draws 300 watts at 3 volts, then 300W ÷ 3V = 100A, which is the maximum limit of this unit. Continuous operation at full load may reduce service 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

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