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DCP-5A-24.48VDC-DP-WP

Waterproof Transformer Converts 110V AC to 24-48 Volts DC - 5 Amps Max

Product ID: 319359

Image: DCP-5A-24.48VDC-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-5A-24.48VDC-DP-WP Power Converter

Line In Voltage: 110V AC @ 47~63 hz

Line Out: 24-48VDC @ 5 Amps

Watts: 240
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-5A-24.48VDC-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-5A-24.48VDC-DP-WP Waterproof Power Supply converts commonly used 110V AC electrical current to a 24-48V DC output at up to 5 Amps. This converter is designed to be hardwired into building, boat, or vehicle electrical systems where voltage is typically within the 110-120V AC range and reduces it to adjustable low-voltage DC, allowing users to power equipment such as our LED light bars and HID Golights that require 24 to 48V DC.

The DCP-5A-24.48VDC-DP-WP 240-watt power converter provides a safe and effective way for users to tap into common 110-120 Volt AC power sources and convert this current to adjustable 24-48 Volt DC for use with compatible equipment. This unit operates on an input voltage range of 90-264V AC and outputs up to 240 watts of DC current at a maximum of 5 amps. The power converter features an IP67-rated waterproof design, making it suitable for indoor or outdoor use and is approved for wet and damp locations. Built-in protections include short circuit, over-voltage, over-temperature, and overload safeguards that shut down or limit output in the event of a fault, protecting both the converter and connected devices.

The compact size and wide input range make this unit ideal for indoor and outdoor operation of Larson Electronics LED light bars, Golights, and other equipment requiring 24 to 48V DC current, especially in locations where DC power is not readily available. Measuring 9.6 inches long by 2.6 inches wide by 1.5 inches deep, the unit weighs approximately one pound and mounts using two conventional screws via slotted holes for easy installation and repositioning.

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-5A-24.48VDC-DP-WP 240-watt converter features full-range universal AC input (90-264V AC, 47-63Hz) and delivers an adjustable 24-48V DC output at up to 5 Amps. IP67-rated, this unit is waterproof, wet and damp area approved, and suitable for indoor or outdoor applications. Integrated protection includes overload, short circuit, over-temperature, and over-voltage features to safeguard the unit during abnormal conditions. The unit limits output during overcurrent, enters hiccup mode under short circuit, and shuts down if temperature thresholds are exceeded, recovering automatically when normal conditions return.

This converter supports an operating temperature range of -30°C to +60°C and is compliant with UL1012, UL60950-1, and global lighting safety standards. With up to 90% efficiency, it is well-suited for powering LED signage, lighting systems, and other industrial equipment. The unit supports 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 28 volts to find the total amperage draw that will be placed upon the converter. For example, if you are using two of our LEDLB-12C 36 watt LED light emitters, 72 watts divided by 36 volts is 2 amps. This would mean the DCP-5A-24.48VDC-DP-WP is well suited as it would run at under 75% capacity to produce the necessary 2 amps. 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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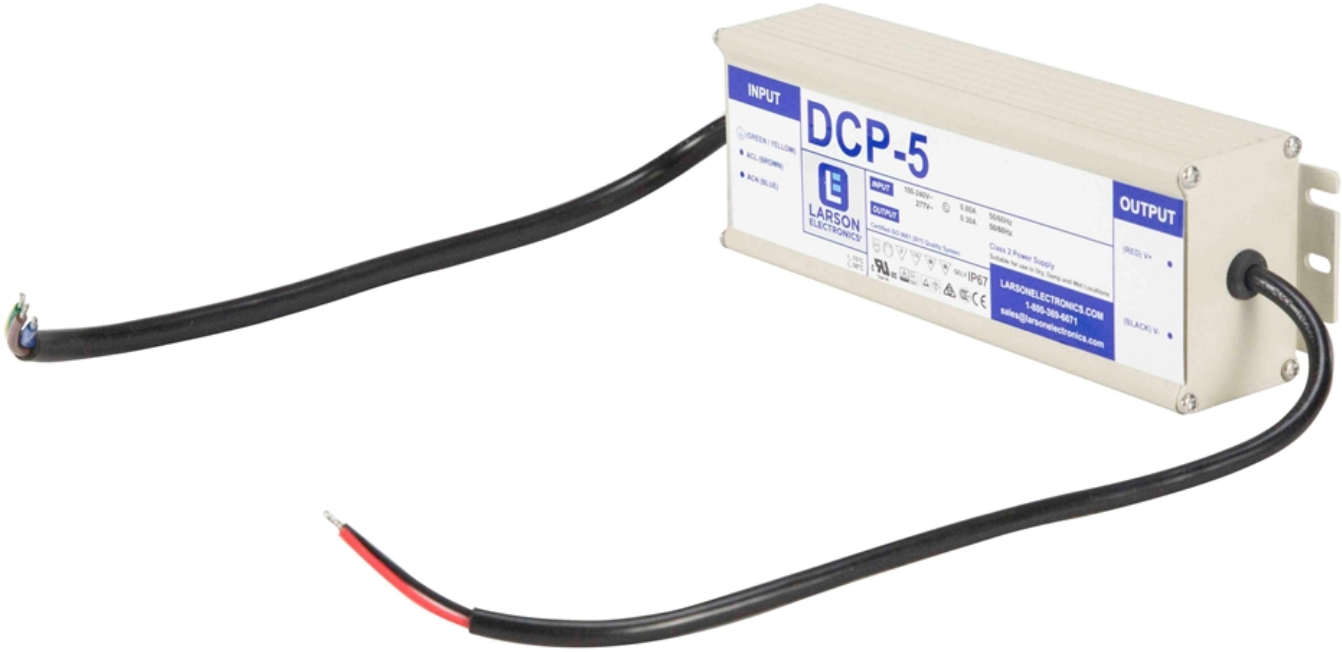

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Frequently Asked Questions (FAQ)

There are no Faqs