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DCP-CV-12.24x48-5A-WP

Encapsulated DC to DC Step Up Transformer - 9-30V (12/24V Nominal) DC to 48V DC - 5 Amps - Flying Leads - Waterproof

Product ID: 271425

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

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-CV-12.24x48-5A-WP - DC to DC Step-up Transformer

Line In Voltage: 9-30 V DC (12/24V Nominal)
Line Out Voltage: 48 V DC @ 5 Amps
Watts: 240
DC Input Connector: 6" Pigtail, Flying Leads
DC Output Connector: 6" Pigtail, Flying Leads
Voltage Accuracy: +/- 1.5%
Output Frequency: 43 KHz
Line-In Regulation: +/- 0.2%
Line-Out Regulation: +/- 0.2%
Temperature Coefficient: +/- 0.03% /°C
Protection: Short Circuit/Overload/ Over Voltage
Operating Temp: -10°C to +60°C
Efficiency: 95%
Dimensions: 2.94"L x 2.91"W x 1.24"H
Mounting: (2) Side Located Thru-Holes
Weight: 0.75 lb

DCP-CV-12.24x48-5A-WP Features

IP68 Rated Waterproof
Overload, Short Circuit, Over Voltage Protection
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-CV-12.24x48-5A-WP Waterproof DC to DC Step-up Transformer converts 9-30 V DC (12/24 V Nominal) electrical current to 48 V DC at 5 amps max. This converter includes flying leads to hard wire this unit inline. This unit takes 9-30 V DC (12/24 volts nominal)

and reduces it to 48 volts DC, allowing users to use 9-30 volt DC power to operate equipment that requires 48 volts.

The DCP-CV-12.24x48-5A-WP 240 watt power converter provides a safe and effective way for users to tap into and utilize 9-30 V DC (12/24V nominal) power sources and step up this current to 48 Volts DC for use with equipment that requires 48 V DC electrical power. This unit is operated with 9-30 V DC (12/24 V DC nominal) and will output 48 Volt DC current to power lights and equipment up to 240 watts and 5 amps at 48 V DC. This power converter features an encapsulated IP68 waterproof design, making it suitable for indoor or outdoor use and is wet-damp area approved. This converter includes integral short circuit, over voltage, 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, Golights and other equipment that requires 48V DC current in locations where 9-30 V DC (12/24 volt DC nominal) power is readily available.

This converter is equipped with two 6" wires on the input side and two 6" wires on the output side. All leads are stripped and tinned for equip installation.

Features: The DCP-CV-12.24x48-5A-WP converter features full range, universal DC input capability and is operated with 9-30 V DC (12/24V nominal). The unit converts this DC power input to 240 watt, 5 Amp 48 V DC. IP68 rated, this unit is waterproof, wet and damp area approved 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 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.

This transformer is enclosed a cast aluminum housing for heat distribution. All electronic components are encapsulated within the housing. This power converter has a -10°C to +60°C operating temperature range. This unit has a 95% conversion efficiency and is suitable for use with moving LED signs and similar LED equipment. These units have a fixed switching frequency at 43KHz.

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 48 volts to find the total amperage draw that will be placed upon the converter. For example, if you are using one of our 240 watt LED lights, 240 watts divided by 48 volts is 5 amps. This would mean the DCP-5-DP is well suited as it would run at under 75% 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.

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)

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Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **HigResPic1**
- **HigResPic2**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**