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DCP-72x12-100A

1200W Encapsulated DC to DC Stepdown Transformer - 72V DC Input, 12V DC Output - 100, Flying Leads - Waterproof

Product ID: 305606



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-72x12-100A - DC to DC Step-down Transformer

DC Input: 72V DC (18V-100V)
DC Output: 12V DC
Output Current: 100A
Watts: 1200W
Ripple: <180mVp
Static Current: <80mA
Output Frequency: 43 KHz
Transfer Efficiency: 95%
Operating Temp: -40°C to +85°C
Protection: Over voltage, Over current, Over temperature, Short circuit protection
Dimensions: 2.91"-L x 2.91"-W x 1.26"-H
Mounting: (2) Side Located Thru-Holes
Weight: 0.66 Lbs

Features

IP68 Rated Waterproof
Over voltage, Over current, Over temperature, Short circuit protection
Suitable For Wet or Damp Locations
International Lighting Safety Standards Compliant
Suitable For LED Moving Signs
Aluminum alloy shell, heat eliminable

Special Orders - Special Requirements

Contact us for special requirements

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The Larson Electronics DCP-72x12-100A Waterproof DC to DC Step-down Transformer converts 72V DC electrical current to 12V DC at 100 amps max. This converter includes flying leads to hard wire this unit inline. The unit takes 72 volts DC (18-100V) and reduces it to 12 volts DC, allowing users to operate equipment like our LED light bars and Golights that require low voltage current.

The DCP-72x12-100A power converter provides a safe and effective way for users to tap into and utilize 72V DC power sources and convert this current to 12V DC for use with equipment that requires low voltage power. This unit can be operated with 72V DC (18-100V) input and will output 12V DC output at 100 amps.

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 12V DC current in locations where 72 volt DC 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.

This transformer is enclosed a cast aluminum housing for heat distribution. All electronic components are encapsulated within the housing. This power converter has a -40°C to +85°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 12 volts to find the total amperage draw that will be placed upon the converter. Running these units at 100% of their capacity can create excess heat and lead to shortened converter life.

Larson Electronics is a manufacturer and as such can build stationary and portable transformer systems to your specifications. Although we carry several models of power distribution transformer systems, we can deliver custom ordered units almost as quickly as our prebuilt units. If this model does not meet your needs, please contact us at 1-800-369-6671 or sales@larsonelectronics.com to discuss your specific requirements.


120W DC-DC CONVERTER
CE
Input
24V
Output
12V 10Amax

Frequently Asked Questions (FAQ)