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DCP-25-7.5HP

Waterproof Transformer Converts 120-277V AC to 12/24 Volts DC - Capacity to 25 Amps Max - 7.5 Horsepower Rated

Product ID: 304661

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



Image: DCP-25-7.5HP

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-25-7.5HP Power Converter

Line In Voltage: 100-277V AC @ 47~63 Hz

Line Out: 12V DC @ 25 Amps, 24V DC @ 12.5 Amps

Watts: 256
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°C / +60°C
Horsepower Rating: 7.5HP
Efficiency: 90%
Dimensions: 9.6"-L x 2.5"-W x 1.5"-D
Weight: 1 lb

DCP-25-7.5HP Features

IP67 Rated Waterproof
Overload, Short Circuit ,Over Voltage, Over Temperature Protection
NRTL Certified to UL1012
NRTL Certified to UL60950-1
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 DCP-25-7.5HP from Larson Electronics is a Waterproof Power Supply that converts commonly used 120-240V AC electrical current to 12V DC @ 25 Amps. This converter is designed to be hardwired into building, boat, or vehicle electrical supplies where the

voltage is typically within the 100-277V AC range and reduces it to 12V DC or 24V DC, allowing users to use standard AC power to operate equipment like our LED light bars and HID Golights that require low voltage DC current. This unit is rated for 7.5 horsepower.

The DCP-25-7.5HP 256 watt power converter provides a safe and effective way for users to tap into and utilize common 120 to 240 Volt AC power sources and convert this current to 12 Volts DC or 24 Volts DC for use with equipment that requires 12/24 volt DC electrical power. This unit can be operated with input current ranging from 100 to 277V AC and will output 256 watt 12 Volt DC current at 25 amps or 24 Volt DC current at 12.5 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 DCP-25-7.5HP can handle a capacity of 7.5 horsepower.

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 and anywhere 12 volt DC power is not readily available. Measuring 9.6 inches long by 2.6 inches wide by 1.5 inches deep, this unit weighs approximately one pound and is mounted with two 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-25-7.5HP 256 watt converter features full range, universal AC input capability and can be operated with 100 to 277 VAC. The unit converts this AC power input to 256 watt, 25 Amp 12V DC or 12.5 Amp 24V DC output. 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 / +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 also feature Power Factor Correction, adjustable output current range from 8 ~ 16A either through the output cable or internal potential meter and 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. 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 two of

our LEDP10W-120E 120 watt LED lights, 240 watts divided by 12 volts is 20 amps. This would mean the DCP-25-7.5HP is well suited as it would run at 75% capacity to produce the necessary 20 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)

There are no Faqs

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DCP-25-7.5HP

Product ID: 304661

Export Control Classification Number (ECCN): EAR99

Options:

DCP-25-7.5HP-Output Voltage
Example: DCP-25-7.5HP-12V

Output Voltage	
12 VOLT	-12V
24 VOLT	-24V

Links (Click on the below items to view):

- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/304661.JPG)
- **HigResPic2**(https://www.larsonelectronics.com/images/product/HigResPic2/304661.JPG)
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