

Waterproof Transformer Converts 100V-277V AC to 24 Volts DC - Capacity to 6 amps

Part #: DCP-6-24V



The Larson Electronics DCP-6-24V Power Supply converts commonly used 100 - 277VAC electrical current to 24VDC @6.25 Amps. This converter is designed to be hardwired into home, boat or vehicle electrical supplies where the voltage is typically within the 100-277VAC range and reduces it to 24VDC, allowing users to use standard AC power to operate equipment like our LED light bars and HID Golights that require 24 Volts DC.

The DCP-6-24V 120 watt power converter provides a safe and effective way for users to tap into and utilize common 100 to 277 Volt AC power sources and convert this current to 24 Volts DC for use with equipment that requires 24 volt electrical power. This unit can be operated with input current ranging from 100 to 277 VAC and will output 120 watt 24 Volt DC current at 6.25 amps. This power converter features an IP67 rated design, making it suitable for indoor or outdoor use and includes integral short circuit and overload protection that will shut down the unit 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 operating Larson Electronics LED light bars, Golights and other equipment that requires 24VDC current indoors or outdoors and anywhere 24 volt DC power is not readily available. Measuring 8.7 inches long by 2.5 inches wide by 1.5 inches deep, this unit weighs less than 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.

The DCP-6-24V 120 watt converter features full range, universal AC input capability and can be operated with 100 to 277VAC. The unit converts this AC power input to 120 watt, 6.25 Amp 24VDC output. IP67 rated, this unit is 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 shut down when an over current or over voltage condition is encountered and recovers when manually turned back on.

This power converter has a -30 / +70C 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 92% conversion efficiency and is suitable for use with moving LED signs and similar LED equipment.

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 our LEDP10W-60E 60 watt LED light, 60 watts divided by 24 volts is 2.5 amps. This would mean the DCP-6-24V is well suited as it would run at just under 50% capacity to produce the necessary 2.5 amps. Running these units at 100% of their capacity can create excess heat and lead to shortened converter life.

Specifications / Additional Information

DCP-6-24V Power Converter

Line In Voltage: 100-277VAC @47-63 hz

Line Out: 24VDC @6.25 Amps

Watts: 120

AC Input Connector: 1` Pigtail, Stripped/Tinned Leads

DC Output Connector: 1` Pigtail, Stripped/Tinned Leads

Protection: Short Circuit/Overload/ Over Voltage

Mounting: Two Screw Slide Notches

Operating Temp: -30 / +70C

Efficiency: 90%

Dimensions: 8.7"-L 2.5"-W 1.5"-D

Weight: 1 Lbs

DCP-6-24V Features

IP67 Rated

Overload,Short Circuit,Over Voltage Protection

UL1012 Compliant

UL60950-1 Compliant

International Lighting Safety Standards Compliant

Suitable For LED Moving Signs

Special Orders- Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-498-3363

E-mail: sales@larsonelectronics.com

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