

## DCP-1-5XCP

**AC/DC Converter - 220V Input, 270-350V Output - 1 Amp Max - Five 12V Plug-In Sockets**

**Product ID: 312998**



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-1-5XCP Power Converter

**Line In Voltage:** 220VAC @47-63 hz

**Line Out:** 270~350VDC @1 Amp

**Watts:** 280

**AC Input Connector:** 1` Pigtail, Straight Blade Plug

**DC Output Connector:** 1` Pigtail, Cigarette Plug Socket

**Protection:** Short Circuit/Overload/ Over Voltage

**Mounting:** Two Screw Slide Notches

**Operating Temp:** -20 / +60C

**Efficiency:** 85%

**Dimensions:** 7"-L 2.5"-W 1.5"-D

**Weight:** 1 Lbs

### DCP-1-5XCP Features

IP64 Rated Waterproof

Overload, Short Circuit, Over Voltage Protection

UL1310 Class 2 Rated

CAN/CSA C22.2 No. 223-M91

Suitable For LED Moving Signs

### Special Orders- Requirements

Contact us for special requirements

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The Larson Electronics DCP-1-5XCP Waterproof Power Supply converts commonly used 220VAC electrical current to 270 ~ 350VDC @ 1 Amp. This converter includes a typical straight blade plug on the input end and a Cigarette Lighter Plug-In Socket on the output end. This converter operates with common voltages within the 220VAC range and converts it to 270 ~ 350VDC, allowing users to use standard AC power to operate equipment like our LED and HID lights that require 12 Volt DC current.

The DCP-1-5XCP 280 watt power converter provides a safe and effective way for users to tap into and utilize 220 Volt AC power sources and convert this current to 270 to 350 Volts DC for use with equipment that requires 12 volt electrical power. This unit can be operated with input 220 VAC and will output ranging from 270 to 350 Volt DC current at 1 amp. This power converter features an IP64 rated waterproof 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. This converter comes with a straight blade plug on the input lead and a cigarette plug socket on the output lead, allowing users to simply plug the unit into a typical wall outlet, then connect any 12 volt equipment equipped with cigarette plug connectors. Many of our 12 volt LED lights and LEDLB, LEDLB-E, LEDP ect series lights as well as many of our HID units are available with cigarette plugs, making this unit "plug-n-play" compatible. 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 12VDC current indoors and anywhere 12 volt DC power is not readily available.

Measuring 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.

The DCP-1-5XCP watt converter features full range, universal AC input capability and can be operated with 220VAC. The unit converts this AC power input to 280 watt, 1 Amp 270~350VDC output. IP64 rated, this unit is waterproof 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 shut down when an over current fault is encountered and automatically resume operation once the fault is repaired or removed. When an over voltage condition is encountered the unit will shut down and recovers when manually turned back on. This power converter has a -20 / +60C operating temperature range and is UL 1310 Class 2 and CAN/CSA C22.2 No. 223-M91 rated. This unit has an 85% 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 12 volts is 5 amps. This would mean the DCP-5 is not suitable as it would run at 100% capacity to produce the necessary 5 amps and run hotter, leading to reduced converter life. Thus, a higher rated converter like our [DCP-11-12V](#) would be a better choice.

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## **Frequently Asked Questions (FAQ)**