

Waterproof Transformer Converts 120-277V AC to 12/24 Volts DC - 16 Amps Max - Dual Y-Connector

Part #: DCP-16-Y



The Larson Electronics DCP-16-Y Waterproof Power Supply converts commonly used 120-240VAC electrical current to 12VDC @16 Amps. This converter includes a typical straight blade plug on the input end and two 2 prong Deutsch connectors on the output end, allowing multiple devices to be run with this unit. This converter can operate with voltages within the 100-277VAC range and converts it to 12VDC or 24VDC, allowing users to use standard AC power to operate equipment like our LED and HID lights that require low voltage DC current.

The DCP-16-Y 192 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 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 277 VAC and will output 12 Volt DC current at 16 amps or 24 Volt DC at 8 amps. This power converter features an IP67 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 Y connector ending in two 2-pin Deutsch connectors on the output lead, allowing users to run 2 fixtures off one transformer, keeping in mind that the total amperage should ideally be kept within 75% of the unit's total amperage output and not surpass its amperage maximum (16 amps @ 12VDC, 11 amps @ 24VDC). Most of our 12 volt LED lights and LEDLB, LEDLB-E, LEDP series lights as well as many of our HID units utilize Deutsch connectors, making this unit "plug-n-play" compatible. This converter will also work with our HML-1, CML-1, CML-2, HML-2, CML-3, HML-3 and CML-4 and HML-4 series spotlights. **THIS WILL NOT WORK WITH THE HID GOLIGHT SPOTLIGHTS (GL-3XXXH-X models).** If you purchase this transformer with any of our Larson Electronics lights, we will make sure that the connectors are a match.

The small size and wide input voltage range of this unit make it ideal for operating Larson Electronics LED light bars, Halogen Golights and other equipment that requires 12VDC current indoors and anywhere 12 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.

The DCP-16-Y 192 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 192 watt, 16 Amp 12VDC or 8 Amp 24VDC output. IP67 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 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 two of our our LEDP10W-60E 60 watt LED lights, 120 watts (60 watts each) divided by 12 volts is 10 amps. This would mean the DCP-16-Y is well suited as it would run at less than 75% capacity to produce the necessary 10 amps. Running these units at 100% of their capacity can create excess heat and lead to shortened converter life.

Specifications / Additional Information

DCP-11-Y Power Converter

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

Line Out: 12VDC @ 16 Amps, 24VDC @ 8 Amps

Watts: (2) 96 - 192 Total

AC Input Connector: 1' Pigtail, Straight Blade Plug

DC Output Connector: 1' Pigtail, Two 2 Pin Deutsch Connectors

Protection: Short Circuit/Overload/ Over Voltage

Mounting: Two Screw Slide Notches

Operating Temp: -30 / +70C

Efficiency: 92%

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

Weight: 1 Lbs

DCP-11-Y Features

IP67 Rated Waterproof

Overload,Short Circuit,Over Voltage Protection

UL1012 Compliant

UL60950-1 Compliant

International Lighting Safety Standards Compliant

Y-Connector Ending in 2 Deutsch Plugs

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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[Part #: DCP-16-Y \(48772\)](#)

Options:

DCP-16-Y- VOLTAGE

Example: DCP-16-Y-12V

VOLTAGE	
12V DC	-12V
24V DC	-24V







Links (Click on the below items to view):

- [Manual](#)
- [Hi-Res Image 1 - Waterproof Transformer Converts 120-277V AC to 12/24 Volts DC \(main\)](#)
- [Hi-Res Image 2 - Waterproof Transformer Converts 120-277V AC to 12/24 Volts DC \(side\)](#)
- [Hi-Res Image 3 - Waterproof Transformer Converts 120-277V AC to 12/24 Volts DC \(front\)](#)
- [Hi-Res Image 4 - Waterproof Transformer Converts 120-277V AC to 12/24 Volts DC \(plug\)](#)