

Waterproof Remote Controlled Transformer - Converts 120V-277V AC to 12/24 Volts DC - 16 Amps

Part #: [DCP-16-HD-WRC](#)



The DCP-16-HD-WRC from Larson Electronics is a Waterproof Remote Controlled Power Supply that converts commonly used 120-240V AC electrical current to 12V DC @ 16 Amps. This converter includes an industrial grade male plug and 3` of cable on the input end and 1` cable with flying leads output end. This unit takes voltages 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 low voltage LED hand lamps that require low voltage DC current. The included handheld remote is waterproof and offers operators wireless on/off operation of the power supply and connected equipment via a simple button press.

The DCP-16-HD-WRC 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 12/24 Volts DC for use with equipment that requires low voltage electrical power. This unit can be operated with input current ranging from 100 to 277 VAC and will output 192 watt 12 Volt DC current at 16 amps or 24 Volt DC current at 8 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 small size and wide input voltage range of this unit make it ideal for indoor-outdoor operation of Larson Electronics LED light bars, handlamps and other equipment that requires 12/24 VDC current and anywhere 12/24 volt DC power is not readily available.

Remote Operation: The DCP-16-HD-WRC power supply features wireless handheld remote control operation. Remote operation is provided by one handheld wireless remote controller that operates over a radio frequency of 433 MHz. This remote includes an internal 12 volt battery rated at 1 year of operation and a single red LED to indicate remote control activity. The remote controller has a range of up to 100 feet and will operate through walls, within structures, and in vehicles. The remote is constructed of polycarbonate with rubber push pad buttons for weatherproof durability and can be user programmed to operate one or several lights simultaneously. Remotes are 3 inches long by 2 inches wide by 3/8 inch thick.

This converter comes with 3` of 16/3 SOOW cable terminated in a male plug on the input lead and 1` of 12/2 SOOW cable with flying leads on the output lead, allowing users to simply plug the unit into a typical wall outlet after hard wiring this transformer to any of our 12/24 volt lights. Plug options include standard 5-15 15 amp straight blade plug for 110V wall outlets with ground, standard 6-15 15 amp straight blade plug for 220-240V wall outlets with ground, NEMA L5-15 15 amp twist lock plug for 125V twist lock outlets, NEMA L6-15 15 amp twist lock plug for 240V twist lock outlets, British BS1363 13 amp fused 3-blade plug for United Kingdom outlets, or a two pin 16 amp rated Schuko plug with ground contact and socket for European outlets up to 250V. Alternatively, we can provide flying leads with no plug for hard wire applications or for operators who prefer to wire in user provided cord caps. Please choose pigtail option below for flying leads with no plug.

[Click Photos to Enlarge](#)



5-15 Straight Blade Plug
15 Amp / 125V Rated



L5-15 Twist Lock Plug
15 Amp / 125V Rated



L6-15 Twist Lock Plug
15 Amp / 250V Rated



UK BS1363 Straight Blade Plug
13 Amp / 250V Rated / Internal Fuse



Intl Schuko 2-Pin Plug
16 Amp / 250V Rated / Grounded



Flying Leads / Pigtail Wires

Features: The DCP-16-HD-WRC 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, 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 transformer is enclosed in a weather proof enclosure that is equipped with a handy strap for carrying and/or mounting. 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 LEGP10W-120E 120 watt LED lights, 120 watts divided by 12 volts is 10 amps. This would mean the DCP-16-HD-WRC is well suited as it would run at under 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.

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.

Specifications / Additional Information

DCP-16-HD-WRC Power Converter w/ Wireless Remote Control

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

Line Out: 12V DC @ 16 Amps, 24V DC @ 8 Amps

Watts: 192

AC Input Connector: 3` 16/3 SOOW w/ Male Plug

DC Output Connector: 1` 12/2 SOOW w/ Pigtail

Cord Cap: 5-15, 6-15, 6-15, L5-15, L6-15, BS1363, Schuko, or Pigtail

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

Mounting: Two Screw Slide Notches

Operating Temp: -30°C to +60°C

Efficiency: 90%

Dimensions: 9.6"L x 2.5"W x 1.5"D

Weight: 2 lbs

Operation: Waterproof Handheld Remote Control

DCP-16-HD-WRC Features

IP67 Rated Waterproof

Overload, Short Circuit Protection

Over Voltage, Over Temperature Protection

UL1012 Compliant

UL60950-1 Compliant

International Lighting Safety Standards Compliant

Suitable For LED Moving Signs

Suitable For Wet or Damp Locations

Wireless On/Off Remote Control Included

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-HD-WRC \(148159\)](#)

Options:**DCP-16-HD-WRC- CORD CAP - OUTPUT VOLTAGE****Example: DCP-16-HD-WRC-5.15-12V**

CORD CAP		OUTPUT VOLTAGE	
5-15 Straight	-5.15	12V	-12V
6-15 Straight	-6.15	24V	-24V
L5-15 Twist	-L5.15		
L6-15 Twist	-L6.15		
UK BS1363	-BS1363		
Intl Schuko	-Schuko		
Pigtail	-Pigtail		

Links (Click on the below items to view):

- [Hi-Res Image 1](#)