

DCP-5-HD

Waterproof Transformer - Converts 120V-277V AC to 12/24 Volts DC - 5 Amps - Multiple Plug Options

Product ID: 146364

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



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-5-HD Power Converter

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

Line Out: 12V DC @ 5 Amps, 24V DC @ 2 Amps

Watts: 102

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

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

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

Female Cord Cap: 5-15, L5-15, Deutsch, or Pigtail

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

Mounting: Two Screw Slide Notches

Operating Temp: -30 / +60C

Efficiency: 90%

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

Weight: 2 Lbs

DCP-5-HD 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

Special Orders - Special Requirements

Contact us for special requirements

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The Larson Electronics DCP-5-HD Waterproof Power Supply converts commonly used 100-277V AC electrical current to 12V DC @ 5 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 12 VDC or 24 VDC, allowing users to use standard AC power to operate equipment like our low voltage LED hand lamps that require low voltage DC current.

The DCP-5-HD 48 watt power converter provides a safe and effective way for users to tap into and utilize 100-277 Volt AC power sources and convert this current to 12 Volts DC for use with equipment that requires 12 volt electrical power. This unit can be operated with input current ranging from 100 to 277 VAC and will output 12 Volt DC current at 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 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.

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 terminated in a female plug 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. Male 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 11 amp rated Schuko plug with ground contact and socket for European outlets up to 250V. Female plug options for low voltage output include 5-15 straight blade plug, L5-15 twist lock plug, and 2-pin Deutsch connector. 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-5-HD converter features full range, universal AC input capability and can be operated with 100 to 277V AC. The unit converts this AC power input to 48 watt 5 Amp 12V DC or 2 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 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 / +60C 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 5.5~ 11A 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 our LEDP10W-60E 60 watt LED light, 60 watts divided by 12 volts is 5 amps. This would mean the DCP-5-HD is not suitable as it would run at 100% capacity to produce the necessary 5 amps and run hotter, leading to reduced converter life. 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.

Frequently Asked Questions (FAQ)







DCP-5-HD

Product ID: 146364

Harmonized System (HS) Code: 85131000

Export Control Classification Number (ECCN): EAR99

Options:

DCP-5-HD-Input Cord Cap-Output Cord Cap-Output Voltage

Example: DCP-5-HD-5.15-5.15-12V

Input Cord Cap	
5-15 STRAIGHT	-5.15
6-15 STRAIGHT	-6.15
L5-15 TWIST	-L5.15
L6-15 TWIST	-L6.15
UK BS1363	-BS1363
INTL SCHUKO	-Schuko
PIGTAIL	-Pigtail

Output Cord Cap	
5-15	-5.15
L5-15	-L5.15
DEUTSCH	-DEU
FLYING LEADS	-PIGTAIL

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

Links (Click on the below items to view):

- [CE Certificate](#)
- [Certificate 1, Misc](#)
- [Certificate 2, Misc](#)
- [Certificate 3, Misc](#)
- [MSDS \(Material Safety Data Sheet](#)
- [Operations Manual](#)
- [RoHS Certificate \(Restriction of Hazardous Substances\)](#)
- [Wiring Diagram \(Online\)](#)
- [HigResPic1](#)
- [HigResPic2](#)
- [HigResPic3](#)
- [HigResPic4](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)