

DCP-16-HD

Waterproof Transformer - Converts 120V-277V AC to 12/24 Volts DC - 16 Amps - Multiple Plug Options

Product ID: 105483



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-16-HD Power Converter

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

Line Out: 12VDC @16 Amps, 24VDC @ 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, L5-15, L6-15, BS1363, Schuko, 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-16-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

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

Fax: 1-903-498-3364

E-mail: sales@larsonelectronics.com

The Larson Electronics DCP-16-HD Waterproof Power Supply converts commonly used 120-240VAC electrical current to 12VDC @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 100-277VAC 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-16-HD 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.

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

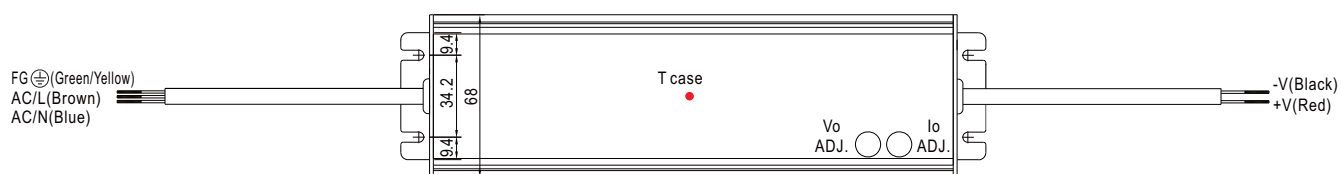
Features: The DCP-16-HD converter features full range, universal AC input capability and can be operated with 100 to 277VAC. The unit converts this AC power input to 192 watt, 16 Amp 12VDC or 8 Amp 24VDC output. IP67 rated, this unit is waterproof, wet and damp area approved and suitable for indoor or 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 / +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 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 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.

Wiring Diagram

WARNING: DO NOT SERVICE WHILE ENERGIZED! Tip: Use a voltmeter to check voltage!



※ T case: Max. Case Temperature.











Certification

Manufacturer: Larson Electronics LLC
Address: 9419 US-HWY 175
Kemp, Texas 75143

Declare the following equipment conforms to the standard(s) as listed:

Model: DCP-16
Description: AC to DC transformer

Evaluated Listings:

UL: FKSZ.E334687, FKSZ7.E334687 – NEC / United States standards

UL: FKSZ2.E334687, FKSZ8.E334687 – CEC / Canada standards

The DCP-16 is certified to NEC and CEC standards for:

- Drivers for Light-emitting-diode Arrays
- UL1012 Compliant
- UL60950-1 Compliant

The DCP-16 is comprised of a Mean Well HLG series driver. This driver includes a UL listed cord assembled on the AC and DC voltage side. This assembly is built to NEC and CEC, standards.

Signed for and on behalf of: Larson Electronics, LLC
Place of issue: Kemp, TX

Signature: *James Thomas*

Name: James Thomas
Position: Operations Manager

[<- Back](#)

Product Description

Title: INDUSTRIAL CONTROL PANELS
Company: LARSON ELECTRONICS LLC - Kemp, TX USA
Product Information: Industrial Control Panels For General Use.
Evaluated to the following: A representative sample of the listed devices have been tested, investigated and found to comply with the requirements of the Standard(s) for Industrial Control Panels (UL-508A) and are identified with the ETL Listed Mark.

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Contact Us

ETL listed products that are in doubt or for products that do not appear in the directory, please request a verification of certification.
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Product Description

Title: INDUSTRIAL CONTROL EQUIPMENT
Company: LARSON ELECTRONICS LLC - Kemp, TX USA
Product Information: Industrial Control Panels For General Use.
Industrial Control Panels Relating to Hazardous (Classified) Locations, Custom Industrial Control Panels.

Power Distribution System, Model Nos. MGL, MPD, MGS series;
Followed by AAK-PBB.FFF-SCC.GGG-EEXCCC.DDD; Where AA = 2,3,5,7,9,15,20,25,30,45,50,75; BB = 1P, 3P; FFF = 480,240,208,120; CC = 1P,3P; GGG = 480,240,208,120; EE = # of outlets; CCC = voltage; DDD = outlet amperage.

Evaluated to the following: A representative sample of the listed devices have been tested, investigated and found to comply with the requirements of the Standard(s) for Industrial Control Equipment (CAN/CSA-C22.2 No. 14) and are identified with the cETL Listed Mark.

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Material Safety Data Sheet

To Whom It May Concern,

The Larson Electronics LLC DCP industrial line of power supplies are considered “ARTICLES” under 29 CFR 1910-1200, the OSHA Hazard Communication Standard, and do not require a Material Safety Data Sheet (MSDS). This document does not expire.

Articles are specifically exempt from the regulations of this standard. OSHA defines an article as follows:

1910-1200(c) – Article means a manufactured item other than a fluid or particle:

- i. Which is formed to a specific shape or design during manufacture;
- ii. Which has end use function(s) dependent in whole or in part upon its shape or design during end use; and
- iii. Which under normal conditions does not release more than very small quantities.

Regards,

Ray Smith
Larson Electronics, LLC.



Certification

Manufacturer: Larson Electronics LLC
Address: 9419 US-HWY 175
Kemp, Texas 75143

Declare the following equipment conforms to the standard(s) as listed:

Model: DCP Series
Description: Power Supplies

Evaluated Listings:

CE: DIRECTIVE 2014/35/EU - LOW VOLTAGE DIRECTIVE
CE: DIRECTIVE 2014/30/EU - EMC DIRECTIVE
CE: Regulation (EC) No 1907/2006 - REACH REGULATION
CE: DIRECTIVE 2015/863/EU - ROHS DIRECTIVE

The DCP series complies with the essential protection requirements of the European Parliament of the Council Directive for Low Voltage Directive, EMC Directive, REACH Regulation, and RoHS Directive. This certification applies to all specimens manufactured in accordance to the manufacture's drawings.

Signed for and on behalf of: Larson Electronics, LLC
Place of issue: Kemp, TX

Signature: *James Thomas*

Name: James Thomas
Position: Operations Manager



Certification

Manufacturer: Larson Electronics LLC
Address: 9419 US-HWY 175
Kemp, Texas 75143

Declare the following equipment conforms to the standard(s) as listed:

Model: DCP Series
Description: Power Supplies

Evaluated Listings:

CE: DIRECTIVE 2015/863/EU - ROHS DIRECTIVE

This is to certify that products offered by Larson Electronics LLC comply with the Reduction of Hazardous Substances (RoHS) directives. Directive 2002/95/EC became effective on 1 July 2006. It restricts the use of six substances in the manufacture of electrical and electronic equipment. This directive was revised in June 2011 and is now referred to as directive 2011/65/EU. Directive 2015/863/EU amending Annex II to Directive 2011/65/EU announced plans to add four substances from 22 July 2019.

We hereby certify that the equipment specified above conforms to the Directive(s) by containing less of the restricted substances than the stated limits.

Signed for and on behalf of: Larson Electronics, LLC
Place of issue: Kemp, TX

Signature: *James Thomas*

Name: James Thomas
Position: Operations Manager



Certification

Manufacturer: Larson Electronics LLC
Address: 9419 US-HWY 175
Kemp, Texas 75143

Declare the following equipment conforms to the standard(s) as listed:

Model: DCP Series
Description: Power Supplies

Evaluated Listings:

CE: Regulation (EC) No 1907/2006 - REACH REGULATION

This letter establishes the opinion of Larson Electronics LLC regarding the status, under the current European Union ("EU") Regulations on Registration, Evaluation, Authorization, and Restriction of Chemical Substances ("REACH").

REACH does not apply to manufactured products which are referred to as "completed articles". Substances (chemicals) are subject to REACH registration, NOT products.

In addition, Articles are exempt from the REACH requirements if (a) the Article does not contain a substance of very high concern or candidate substance in an amount exceeding 0.1% weight by weight, and (b) if substances present in the Article in excess of 1 ton per year per importer are not expected nor intended to be released.

Based on communication with our raw material suppliers, we conclude that to the best of our knowledge our products requiring REACH compliance do not contain any of the currently listed SVHC in concentrations of 0.1% or above.

Accordingly, we foresee no registration or pre-registration requirement for the products we supply.

Signed for and on behalf of: Larson Electronics, LLC
Place of issue: Kemp, TX

Signature: *James Thomas*

Name: James Thomas
Position: Operations Manager

Frequently Asked Questions (FAQ)