Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

DCP-25-DP

Waterproof Transformer Converts 120-240V AC to 12/24 Volts DC - 25 Amp Max- Straight Blade Wall Plug

Product ID: 50921



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-25-DP Power Converter
Line In Voltage: 100-277VAC @47~63 hz

Line Out: 12VDC @ 25 Amps, 24VDC @ 12.5 Amps

Watts: 256 Total
AC Input Connector: 1` Pigtail, Straight Blade Plug
DC Output Connector: 1` Pigtail, 2 Pin Deutsch Connectors
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: 1 Lbs

DCP-16-12V-DP Features
IP67 Rated Waterproof
Overload, Short Circuit ,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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Intl: 1-903-270-1187
Fax: 1-903-498-3364
E-mail: sales@larsonelectronics.com

The Larson Electronics DCP-25-DP Waterproof Power Supply converts commonly used 120-240VAC electrical current to 12VDC @25 Amps. This converter includes a typical straight blade plug on the input end and a 2 prong Deutsch connector on the output end. This unit takes voltages within the 100-277VAC range and reduces it to 12/24 VDC, allowing users to use standard AC power to operate equipment like our LED light bars and HID Golights that require low voltage DC current.
The DCP-25-DP 256 watt power converter provides a safe and effective way for

users to tap into and utilize common 120 to 240 Volt AC power sources and convert this current to 12/24 Volts DC for use with equipment that requires 12/24 volt electrical power. This unit can be operated with input current ranging from 100 to 277 VAC and will output 256 watt 12 Volt DC current at 25 amps or 24 Volt DC at 12.5 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.

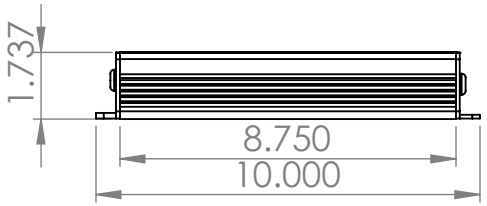
The small size and wide input voltage range of this unit make it ideal for indoor-outdoor operation of Larson Electronics LED light bars, Golights and other equipment that requires 12/24 VDC current and anywhere 12/24 volt DC power is not readily available. Measuring 9.6 inches long by 2.6 inches wide by 1.5 inches deep, this unit weighs approximately one pound and is mounted with two conventional screws via slots that allow removal and repositioning simply by loosening the screws.

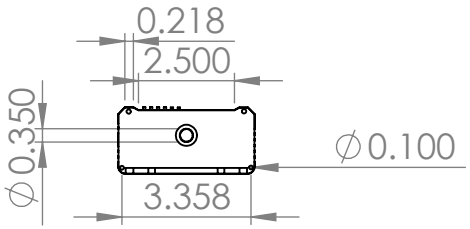
This converter comes with a straight blade plug on the input lead and a two pin Deutsch connector on the output lead, allowing users to simply plug the unit into a typical wall outlet, then connect any of our 12/24 volt lights equipped with Deutsch connectors, keeping in mind that the total amperage should ideally be kept within 75% of the unit`s total amperage output and not surpass its amperage maximum (25 amps @ 12VDC, 12.5 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.

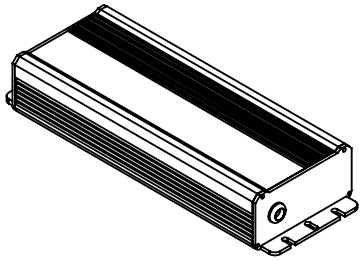
Features: The DCP-25-DP 256 watt converter features full range, universal AC input capability and can be operated with 100 to 277VAC. The unit converts this AC power input to 256 watt, 25 Amp 12VDC or 12.5 Amp 24VDC output. IP67 rated, this unit is waterproof, wet and damp area approved and suitable 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.

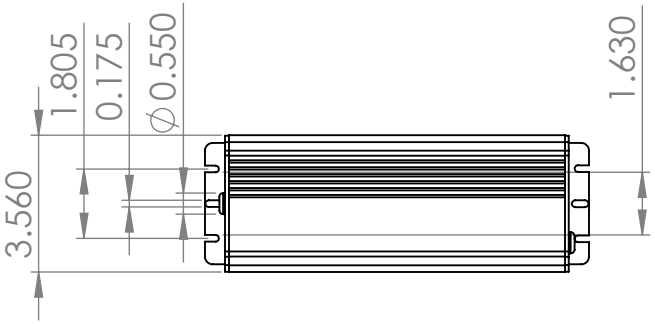
This power converter has a -30 / +60C operating temperature range and is UL UL1012 and UL60950-1 compliant as well as compliant with worldwide safety regulations for lighting. This unit has a 90% conversion efficiency and is suitable for use with moving LED signs and similar LED equipment. These units 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.

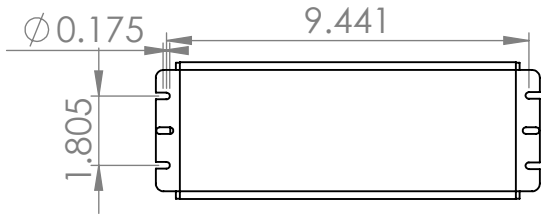
NOTE: In order to obtain the best performance and the longest operational life from these units, it is recommended that you do not exceed 75% of the unit's output amperage. To determine if this converter suits your desired application, add together the total wattage of the equipment you intend to use 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 four of our LEDP10W-60E 60 watt LED lights, 240 watts divided by 12 volts is 20 amps. This would mean the DCP-25-DP is well suited as it would run at 75% capacity to produce the necessary 20 amps. Running these units at 100% of their capacity can create excess heat and lead to shortened converter life.











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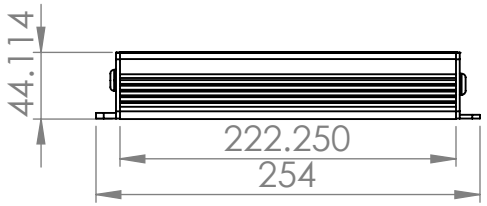
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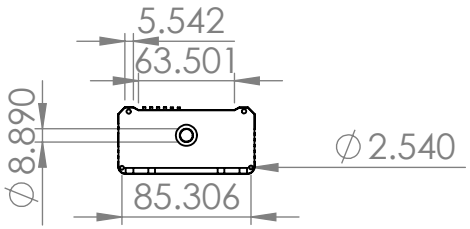
DCP-25-DP

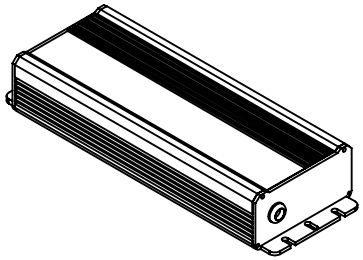
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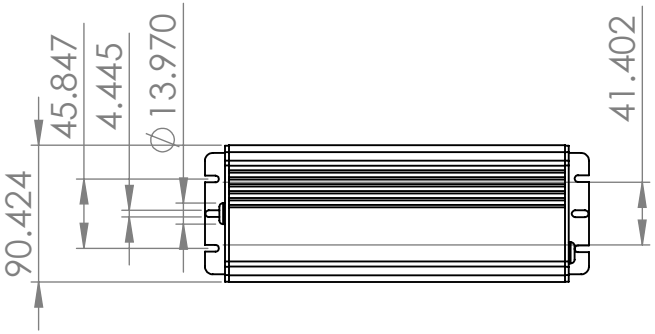
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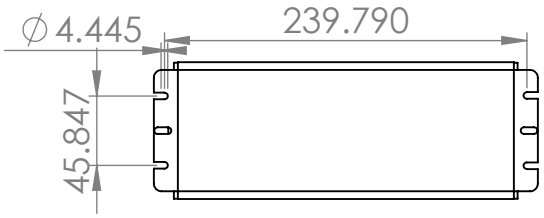
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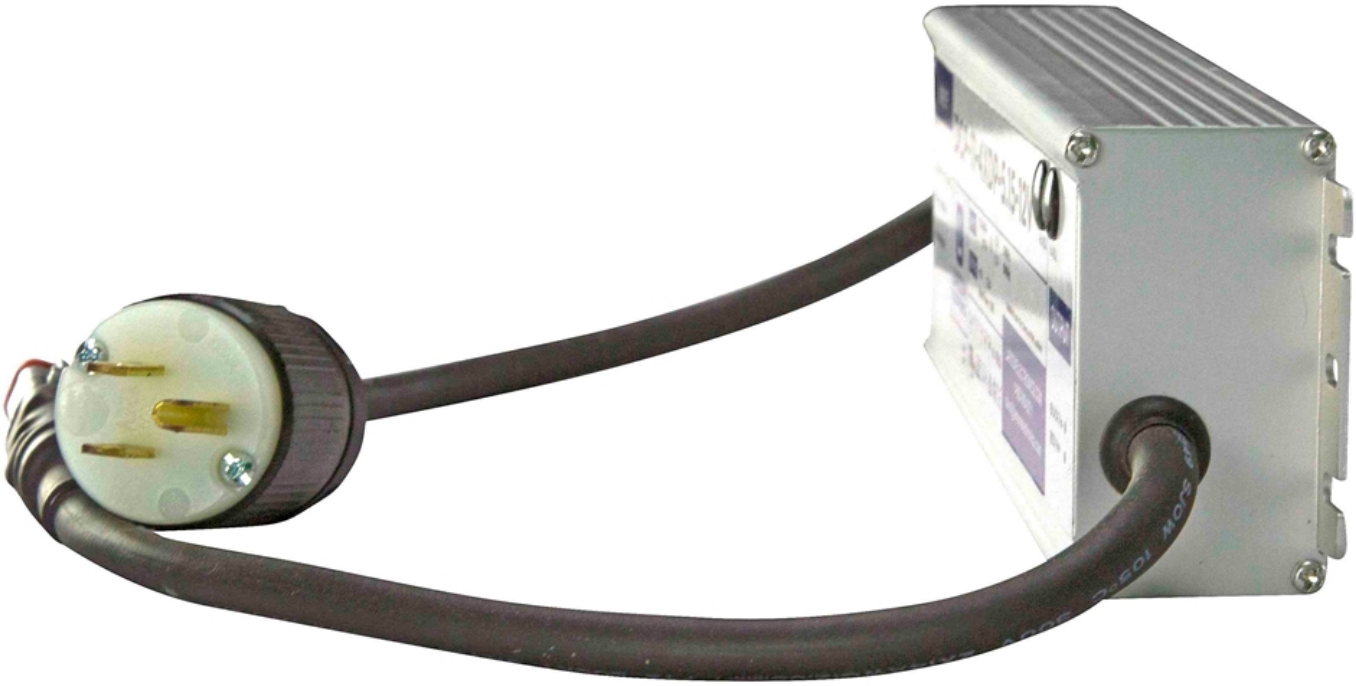
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ACL (BROWN)
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Io ADJ.
OUTPUT
(BLACK) Vo-
(RED) Vo+
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Certification

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-25
Description: Multiport 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-25 is certified to NEC and CEC standards for:

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

The DCP-25- is comprised of a Mean Well HLG series driver. This driver may include a UL listed cord cap on the AC voltage side and Deutsch/LADD DT series weatherproof connector and DT series pins assembled on the DC voltage side or other custom DC connector. This assembly is built to NEC and CEC, standards.

Signed for and on behalf of: Larson Electronics, LLC
Place of issue: Kemp, TX
Date of issue: January 30, 2020

Signature: James Thomas

Name: James Thomas
Position: Operations Manager

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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.

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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

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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

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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

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Frequently Asked Questions (FAQ)