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

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.765.7664

DCP-5

Waterproof DC Power Supply Converts 110-277V AC Power to 12 or 24 Volts DC for Lights

Product ID: 1650



Image: DCP-5

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-5-12V Power Converter
Line In Voltage: 100-277VAC @47-63 hz
Line Out: 12V DC @5 Amps or 24V DC @ 2.5 Amps
Watts: 48
Dimensions: 6.74"L x 2.43"W x 1.45"H
Weight: 2.5 lbs
AC Input Connector: 1` Pigtail, Stripped/Tinned Leads
DC Output Connector: 1` Pigtail, Stripped/Tinned Leads
Protection: Short Circuit/Overload/ Over Voltage
Mounting: Two Screw Slide Notches
Operating Temp: -20 / +60C
Efficiency: 85%

DCP-5-12V Features
IP64 Rated Waterproof
Overload,Short Circuit,Over Voltage Protection
UL1310 Class 2 Rated
CAN/CSA C22.2 No. 223-M91
Suitable For LED Moving Signs

Special Orders- Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
Fax: 1-903-765-7664
E-mail: sales@larsonelectronics.com

The Larson Electronics DCP-5-12V Waterproof Power Supply converts commonly used 100-277VAC electrical current to 12VDC @5 Amps. This converter is designed to be hardwired into home, boat or vehicle electrical supplies where the voltage is typically within the 100-277VAC range and reduces it to 12VDC, allowing users to operate equipment like our LED and HID lights that require 12 Volt DC current from standard AC power.

The DCP-5-12V 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 IP64 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 clearly labeled input and output leads that are approximately 1 foot long and stripped and tinned for hardwired connections using butt splice connectors, wire screws, plates, etc. The small size and wide input voltage range of this unit make it ideal for operating Larson Electronics LED light bars, Golights and other equipment that requires 12VDC current indoors and anywhere 12 volt DC power is not readily available.

Measuring 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.

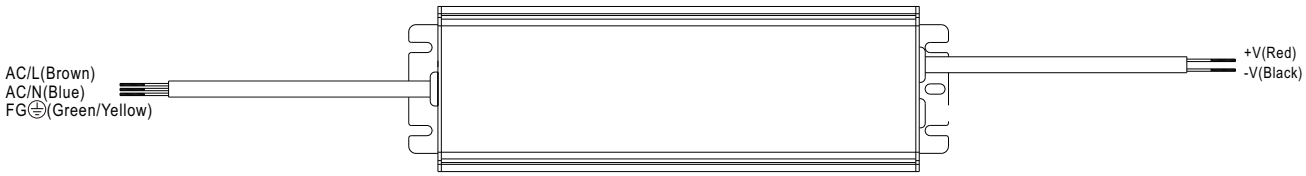
The DCP-5-12V 48 watt converter features full range, universal AC input capability and can be operated with 100 to 277VAC. The unit converts this AC power input to 48 watt, 5 Amp 12VDC output. IP64 rated, this unit is waterproof and suitable for indoor or outdoor applications. Integrally designed protection 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 fault is encountered and automatically resume operation once the fault is repaired or removed. When an over voltage condition is encountered the unit will shut down and recovers when manually turned back on.

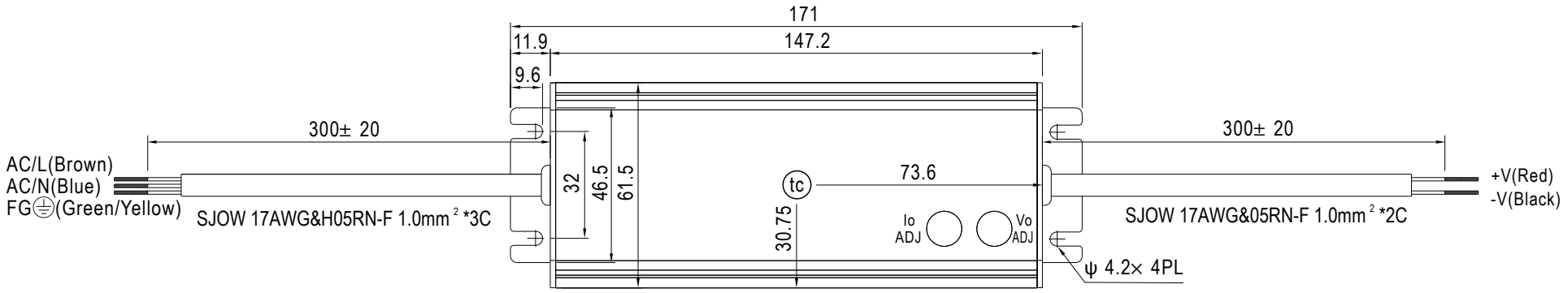
This power converter has a -20 / +60C operating temperature range and is UL 1310 Class 2 and CAN/CSA C22.2 No. 223-M91 rated. This unit has an 85% conversion efficiency and is suitable for use with moving LED signs and similar LED equipment.

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 our LEDP10W-60E 60 watt LED light, 60 watts divided by 12 volts is 5 amps. This would mean the DCP-5 is not suitable as it would run at 100% capacity to produce the necessary 5 amps and run hotter, leading to reduced converter life. Thus, a higher rated converter like our DCP-11-12V would be a better choice.

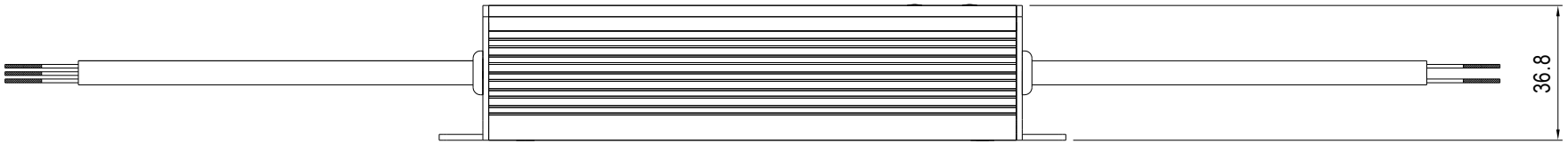
Wiring Diagram

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





tc : Max. Case Temperature



LARSON ELECTRONICS

TITLE:

DCP-5

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF LARSON ELECTRONICS LLC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF LARSON ELECTRONICS LLC IS PROHIBITED.

		NAME
DIMENSIONS ARE IN INCHES	DRAWN	
MATERIAL	CHECKED	JEREMY BLANKENSHIP
DO NOT SCALE DRAWING		

SIZE	DWG. NO.	REV
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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-5
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-5 is certified to NEC and CEC standards for:

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

The DCP-5 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

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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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Certification

Manufacturer: Larson Electronics LLC
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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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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)

There are no Faqs