

DCP-11-DP-EPO20

Waterproof Stepdown Transformer with Explosion Proof Outlet - Converts 120-277V AC to 12V or 24V DC

Product ID: 71654



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-11-DP-EPO20 Power Converter

Line In Voltage: 100-277VAC @47-63 hz
AC Input Connector: 1` Whip, Cord Cap
Cord Cap: 5-15 Wall Plug, L5-15 Twist-lock, L6-15 Twist-lock
Maximum Wattage: 106
Line Out Voltage: 12VDC @ 11 Amps, 24VDC @ 5.5 Amps
DC Output Connector: 5-15/5-20 Explosion Proof Outlet
Protection: Short Circuit/Overload/ Over Voltage
Configuration: 3 Pole 2 Wire
Outlet Materials: Box- Iron /Receptacle- Copper Free Aluminum (4/10 of 1% max.)
Outlet Finish: Box-Triple Coat / Receptacle-Epoxy Powder Coat
Insulating Blocks: Fiber Glass Reinforced Polyester
Mounting: Aluminum Backplate
Operating Temp: -30°C to +70°C
Efficiency: 92%
Weight: 9 Lbs

Transformer Features

IP67 Rated Waterproof
Overload, Short Circuit, Over Voltage Protection
UL1012 Compliant
UL60950-1 Compliant
International Lighting Safety Standards Compliant

Outlet Features

U.L.-Standard: No.-22.2,25,C22.2,30,C22.2,42,C22,159
CSA Standard: C22.2 No. 182.1
NEMA 3, 3R, 7BCD, 9FG
Class 1, Division 1&2 Groups B, C, D
Class 2, Division 1&2 Groups F, G
Class III

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-11-DP-EPO20 Waterproof Power Supply with Explosion Proof Outlet converts commonly used 100-277V AC electrical current to low voltage 12V or 24V DC, providing a maximum of 11 amps at 12V Dc. This converter can operate with voltages within the 100-277VAC range and converts it to 12V or 24V DC, allowing users to use

standard AC power to operate low voltage explosion proof equipment like our LED string lights and portable lights that require 12 Volt DC current.

The DCP-11-DP-EPO20 106 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 Volts DC or 24 Volts DC for use with explosion proof equipment that requires 12/24 volt DC electrical power. This unit can be operated with input current ranging from 100 to 277 VAC and will output 12 Volt DC current at 11 amps or 24 Volt DC current at 5.5 amps. This power converter features an IP67 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 a straight blade plug on the input lead and an explosion proof outlet for the output, allowing users to simply plug the unit into a typical wall outlet, then connect any of our low voltage lights equipped with explosion proof plugs. Please note that this unit is designed to power portable explosion proof electrical equipment from outside of the hazardous environment. The transformer must remain outside of any class rated environments at all times. The DCP-11-DP-EPO20 106 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 106 watt at 11 Amps on 12VDC output or 5.5 Amps on 24VDC current. IP67 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 or over voltage condition is encountered and recovers when manually turned back on. This power converter has a -30°C to +70°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 92% conversion efficiency and is suitable for use with moving LED signs and similar LED equipment.

The power receptacle is constructed of non sparking aluminum and finished with an epoxy powder coating while the housing is constructed of triple coated malleable iron for durability and added corrosion resistance. The internal receptacle plug contacts are constructed of brass and designed to maintain constant pressure along their entire length for superior connectivity. The plug receptacle is deeply recessed to prevent accidental contacts and designed for twist lock plug insertion to provide secure connections. A neoprene seal fitted inside the connector receptacle seals against the plug when inserted to provide positive sealing against water ingress. A spring loaded receptacle door provides an automatic weather-tight seal when the plug is removed. In standard installations within the hazardous location area, threaded rigid pipe is brought to the outlet and the outlet is affixed to a mounting surface.

This outlet is a mate for the Larson Electronics [EPP-15A](#) and [EPP-20A](#) explosion proof plugs and is compatible with all the Larson Electronics low voltage explosion proof lights we make with an explosion proof plug.

NOTE: In order to obtain the best performance and the longest operational life from these units, it is recommended that you do not exceed 80% 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 EPL-SL-10-LED 100 watt LED string light, 100 watts divided by 12 volts is 8.34 amps. This would mean the DCP-11-DP-EPO20 is well suited as it would run at ~75% capacity to produce the necessary 8.34 amps. Running these units at 100% of their capacity can create excess heat and lead to shortened converter life.











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-11
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-11 is certified to NEC and CEC standards for:

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

The DCP-11 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.
Americas+1-888-347-5478
(or +1-847-660-7407)
Email
etldirectory@intertek.com

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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)