

Waterproof DC to DC Stepdown Transformer - 24V DC to 12V DC - 8.5 Amps - Flying Leads DCP-24x12-8-HD



DCP-24x12-8-HD - DC to DC Stepdown Transformer

Line In Voltage: 24V

Line Out: 12V DC @ 8.5 Amps

Watts: 102

DC Input Connector: 10' Pigtail, Flying Leads

DC Output Connector: 10' Pigtail, 2-Pin DT04-2P Deutsch Connector

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

Operating Temp: -10°C to +60°C

Efficiency: 90%

Dimensions: 12.5"-L 8"-W 6.7"-D

Weight: 3 Lbs

DCP-24x12-8-HD Features

IP66 Rated Waterproof

Overload, Short Circuit, Over Voltage, Over Temperature Protection

International Lighting Safety Standards Compliant

Suitable For LED Moving Signs

Suitable For Wet or Damp Locations

Special Orders- Requirements

Contact us for special requirements

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The Larson Electronics DCP-24x12-8-HD Waterproof DC to DC Stepdown Transformer converts 24V DC electrical current to 12V DC @8.5 amps. This converter includes a flying leads on the input end and a 2-pin Deutsch connector on the 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 LED light bars and HID Golights that require low voltage DC current.

The DCP-24x12-8-HD 102 watt power converter provides a safe and effective way for users to tap into and utilize 24 Volt DC power sources and step down this current to 12 Volts DC for use with equipment that requires 12V DC electrical power. This unit can be operated with input current ranging from 24V and will output 102 watt 12 Volt DC current at 8.5 amps. This power converter features an IP66 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 12V DC current in locations where 24 volt DC power is readily available.

This converter comes with flying leads on the input lead and a two pin Deutsch connector on the output lead, allowing users to simply tap into 24 volt power sources, then connect any of our 12 volt lights equipped with Deutsch connectors.

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-24x12-8-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 102 watt, 8.5 Amp 12VDC. 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 polycarbonate & PBT blended weatherproof enclosure that is UV resistant and flame retardant. This power converter has a -10°C to +60°C operating temperature range. This unit has a 90% conversion efficiency and is suitable for use with moving LED signs and similar LED equipment. These units feature built-in EMI filters for low ripple noise and have a fixed switching frequency at 85KHz.

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 LEDP10W-120E 120 watt LED lights, 120 watts divided by 12 volts is 10 amps. This would mean the DCP-16-DP 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.

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