

EPL-TX-DC-24X9-10A

Explosion Proof DC-to-DC Stepdown Transformer - Class I, II, III - 24V DC to 9V DC - 10A - Type 4X

Product ID: 321927

Please see last page for supporting documentation for this product (certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Image: EPL-TX-DC-24X9-10A

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.

EPL-TX-DC-24X9-10A - Explosion Proof DC to DC Step-down Transformer

Listing: United States, Canada, Europe, Asia

Device Type: Explosion Proof DC Step Down Transformer

Dimensions: 6.16" x 5.06"

Weight: 5.65 lbs

Line In Voltage: 24V DC

Line Out Voltage: 9V DC

Watts: 90W

Amps: 10A

Output Frequency: 43 KHz

Voltage Accuracy: +/- 1.5%

Line-In Regulation: +/- 0.2%

Line-Out Regulation: +/- 0.2%

Efficiency: 95%

Protection: Short Circuit, Overload, Over Voltage

Temperature Coefficient: +/- 0.03% /°C

Operating Temp: -10°C to +60°C

Housing Material: Copper-free Aluminum

Enclosure Finish: Silver Powder Epoxy Paint, Electrostatically Applied

Ratings

Class I, Division 1&2 Groups A,B,C,D

Class I, Zones 1&2 Groups IIB+,H2,IIA

Class II, Division 1&2 Groups E,F,G

Class III

ATEX/IECEx Rated

IECEx UL 14.0071U

DEMKO 01 ATEX 15742U

Type 3, 4, 4X

Overload, Short Circuit, Over Voltage Protection

Suitable For Wet or Damp Locations

Special Orders - Special Requirements



Hardware Materials: Zinc-plated Steel w/ Green Dye, Cadmium-plated Steel

O-ring Gasket Material: (2) Neoprene Rubber

Mount: Surface, Conduit via (2) 3/4" NPT Hubs

DC Input Connector: 6" Pigtail, Flying Leads

DC Output Connector: 6" Pigtail, Flying Leads

Contact us for special requirements

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The Larson Electronics EPL-TX-DC-24X9-10A Explosion Proof DC-to-DC Stepdown Transformer converts 24V DC electrical current to 9V DC at 10 amps maximum, for power applications inside flammable environments. Protected by a NEMA-rated copper-free aluminum enclosure and equipped with flying leads for wiring connections, this 10-amp explosion proof unit takes 24 volts DC and reduces it to 9 volts DC.

The EPL-TX-DC-24X9-10A provides a safe and effective way for users to tap into and utilize 24V DC power sources and step down this low voltage current to 9V DC within combustible work sites. This explosion proof unit can be operated with input current of 24V DC and will output 9V DC current to power lights and equipment up to 90 watts and 10 amps at 9V DC. The DC-to-DC converter includes integral short circuit, over voltage 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.

This explosion proof device will limit current when an over current condition is encountered and recovers when the condition is removed. Under short circuit conditions, the transformer will enter hiccup mode and recovers when the fault is removed. Equipped with a 43KHz switching frequency, this unit has a 95% conversion efficiency and is suitable for use with moving LED signs and similar LED equipment.

This ATEX/IECEX rated transformer is constructed of copper-free aluminum finished with powder epoxy paint. Protected by two neoprene rubber O-ring gaskets, the ground screws are made out of zinc plated steel with green dye. The explosion proof device is rated NEMA Type 3, 4 and 4X, which is designed to withstand the rigors of demanding environmental and operating conditions, including ingress of moisture, water spray, liquid, oil and dust, while preventing damage from corrosion and external ice formation.

Wiring: The explosion proof device is equipped with two 6" wires on the input side and two 6" wires on the output side. All leads are stripped and tinned for equip installation.

Mounting: The EPL-TX-DC-24X9-10A can be mounted on surfaces, via 2 mounting holes, or conduits. Operators may access two, 3/4" NPT hubs on the feed-through enclosure, with one 3/4" NPT hub located on the instrument side (front) and one 3/4" NPT hub located on the power side (back).

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.

At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands



of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.



Frequently Asked Questions (FAQ)

There are no Faqs

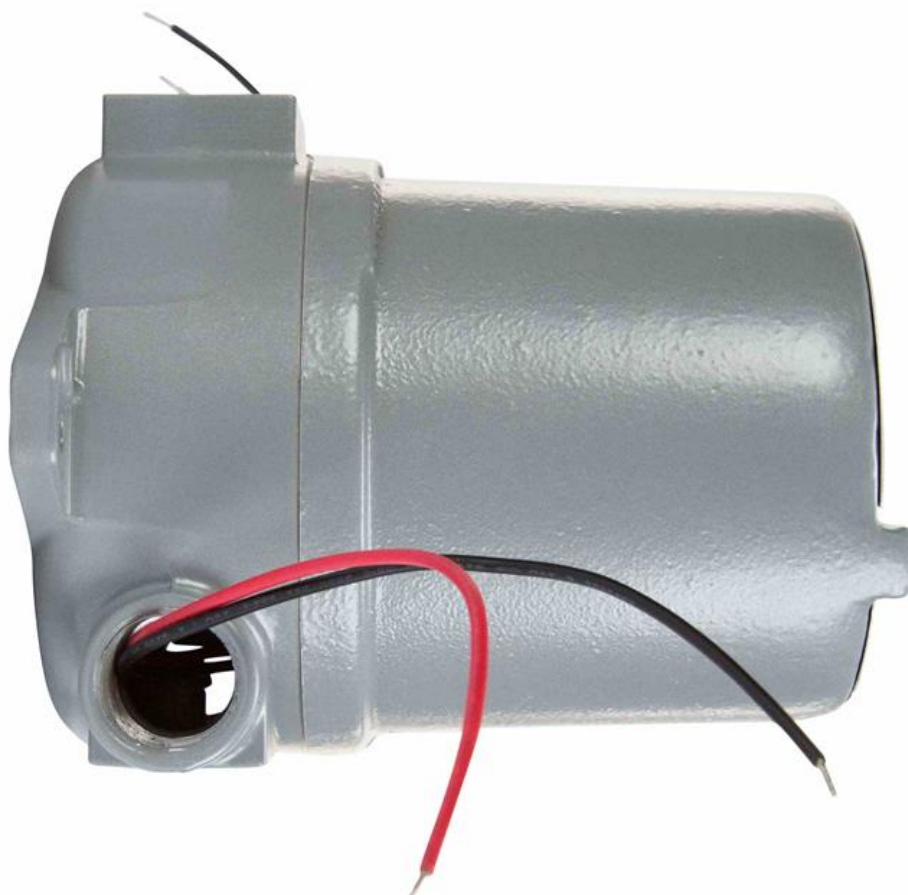


Image: EPL-TX-DC-24X9-10A



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Export Control Classification Number (ECCN): EAR99



Links (Click on the below items to view):

- **Wiring Diagram**(<https://www.larsonelectronics.com/images/product/WiringDiagram/321927.PDF>)
- **HigResPic1**(<https://www.larsonelectronics.com/images/product/HigResPic1/321927.JPG>)
- **HigResPic2**(<https://www.larsonelectronics.com/images/product/HigResPic2/321927.JPG>)
- **HigResPic3**(<https://www.larsonelectronics.com/images/product/HigResPic3/321927.JPG>)
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