

MT-IVT-24VDC-5000VA-120.240VAC-R1

5000W Step Up Transformer - 24V DC to 120/240V AC - 50/60Hz - (2) GFCI Receptacles - Surface Mount

Product ID: 306754



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.

MT-IVT-24VDC-5000VA-120.240VAC-R1 - DC to AC Step-up Transformer

Unit Type: Step Up Transformer

Dimensions: 17.44" x 9.76" x 3.27"

Weight: 11.6 lb

Line In Voltage: 24V DC (21V DC - 33V DC)

Line Out Voltage: 120/240V AC (+/- 5% - 100V AC, 110V AC, 115V AC, 120V AC, 240V AC)

Rated Power: 5000W

Output Frequency: 50/60 Hz (+/- 5%)

Waveform: Pure Sine Wave

Efficiency: 90%

No Load Power Consumption @ Save Mode: < 0.05A @ 24V DC

No Load Power Consumption @ No Load Mode: < 0.9A @ 24V DC

Full Load Efficiency: 93%

Input Under Voltage Protection: 21V $\pm$ 0.5V DC

Input Under Voltage Alarm: 21V DC $\pm$ 0.5V DC

Input Under Voltage Recovery: 25V DC $\pm$ 0.5V DC

Input Over Voltage Protection: 33V DC $\pm$ 0.5V DC

Input Over Voltage Recover: 29V DC $\pm$ 0.5V DC

Output Overload/Short: Shutdown Output Voltage, Restart to Recovery

DC Input Reverse Polarity: Fuse

LED Indicators: (3) Input Voltage Level, Output Load Level, Faulty Status

Cooling: Temperature/Load Controlled Cooling Fan

Input Protection: Reverse Polarity (Fuse), Under Voltage, Over Voltage

Output Protection: Short Circuit, Overload, Over Temperature

Surge Protection: -

Operating Temp: -20°C to +40°C

Storage Temp: -30°C to +70°C

Ratings/Features

Certified FCC Class B

DIP Switch Selectable Output Voltage/Frequency

Adjustable Power Saving Mode

Advanced Microprocessor

Fully Isolated Input/Output

Storage Temp Humidity: 10 to 95% RH

Materials: -

Mount: Surface

DC Input: +/- Terminals (#4 AWG)

AC Output Receptacles: (2) GFCI

Color: Blue, Black

Special Orders - Special Requirements

Contact us for special requirements

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The MT-IVT-24VDC-5000VA-120.240VAC-R1 from Larson Electronics is a Step Up Transformer that converts DC input to AC output in industrial sites. This fan-cooled power converter is rated at 5,000 watts and offers 24V DC input and 120/240V AC output @ 50/60 Hz. Designed for surface-mounting applications, AC output is accessible by two, GFCI receptacles.

The MT-IVT-24VDC-5000VA-120.240VAC-R1 provides a safe and effective way for users to tap into and utilize 24V DC power sources and step up this current to 120/240V AC. Rated at 5,000 watts, this pure sine wave unit can be operated with input current ranging from 21V DC to 33V DC and an output current ranging from 100V AC to 240V AC (output voltage is selectable via a DIP switch). Output frequency is 50/60 Hz +/- 5%, also selectable using a DIP switch. The transformer provides reverse polarity (fuse), under voltage and over voltage input protection and short circuit, overload and over temperature output protection. Threshold for surge protection is 2,000 watts @ 1 minute.

This DC to AC transformer offers a -20°C to +40°C operating temperature range. The unit has a 90% maximum conversion efficiency and fully isolated input/output. Cooling is facilitated by a temperature/load controlled cooling fan. Powered by an advanced microprocessor for ease of use, the power converter features three LED indicator lights for real-time monitoring.

Wiring/Connections: DC input is facilitated by DC +/- input terminals (#4 AWG). Operators may access two GFCI receptacles on the output side for AC power. This unit is compatible with a remote control (not included).

Mounting: The MT-IVT-24VDC-5000VA-120.240VAC-R1 caters to surface mounting applications via four openings on the back of the transformer.

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 24 volts to find the total amperage draw that will be placed upon the converter. For example, if you are using one of our 240 watt LED lights, 240 watts divided by 24 volts is 10 amps. Running these units at 100% of their capacity can create excess heat and lead to shortened converter life.

Applications: Voltage rectification, power conversion, DC to AC transformer, DC to AC conversion and more.

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)