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MT-IVT-48VDC-750VA-160VAC-R1

750W Step Up Transformer - 48V DC to 160V AC - 50/60Hz - (2) GFCI Receptacles - Surface Mount

Product ID: 335182

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



Image: MT-IVT-48VDC-750VA-160VAC-R1

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-48VDC-750VA-160VAC-R1 - DC to AC Step-up Transformer

Unit Type: Step Up Transformer
Dimensions: 16.57" x 9.76" x 3.27"
Weight: 9.1 lbs
Line In Voltage: 48V DC (42V DC - 66V DC)
Line Out Voltage: 160V AC (+/- 5% - 100V AC, 110V AC, 115V AC, 120V AC)
Rated Power: 750W
Output Frequency: 50/60 Hz (+/- 5%)
Waveform: Pure Sine Wave
Efficiency: 90% Maximum
No Load Power Consumption @ Save Mode: < 0.05A @ 48V DC
No Load Power Consumption @ No Load Mode: < 0.5A @ 24V DC
Full Load Efficiency: 90%
Input Under Voltage Protection: 42V ± 1.0V DC
Input Under Voltage Alarm: 44V DC ± 1.0V DC
Input Under Voltage Recovery: 50V DC ± 1.0V DC
Input Over Voltage Protection: 66V DC ± 1.0V DC
Input Over Voltage Recover: 58V DC ± 1.0V DC
Output Overload/Short: Shutdown Output Voltage, Restart to Recovery

Ratings/Features

Certified FCC Class B
DIP Switch Selectable Output Voltage/Frequency
Adjustable Power Saving Mode
Advanced Microprocessor
Fully Isolated Input/Output

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: 1500W for 1 Minute
Operating Temp: -20°C to +40°C
Storage Temp: -30°C to +70°C
Storage Temp Humidity: 10 to 95% RH
Materials: -
Mount: Surface
DC Input: +/- Terminals (#14 AWG)
AC Output Receptacles: (2) GFCI
Color: Blue, Black

Special Orders - Special Requirements
Contact us for special requirements
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The Larson Electronics MT-IVT-48VDC-750VA-160VAC-R1 Step Up Transformer converts DC input to AC output in industrial sites. This fan-cooled power converter is rated at 750 watts and offers 48V DC input and 160V AC output @ 50/60 Hz. Designed for surface-mounting applications, AC output is accessible by two, GFCI receptacles.

The MT-IVT-48VDC-750VA-160VAC-R1 provides a safe and effective way for users to tap into and utilize 48V DC power sources and step up this current to 160V AC. Rated at 750 watts, this pure sine wave unit can be operated with input current ranging from 42V DC to 66V DC and an output current ranging from 100V AC to 160V 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 1,500 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 (#14 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-48VDC-750VA-160VAC-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.

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Frequently Asked Questions (FAQ)

There are no Faqs

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