

**350W Step Up Transformer - 12V DC to 120V AC - 50/60Hz - (2) GFCI Receptacles - Surface Mount**

Part #: MT-IVT-12VDC-350VA-120VAC-R1



**The Larson Electronics MT-IVT-12VDC-350VA-120VAC-R1 Step Up Transformer converts DC input to AC output in industrial sites. This fan-cooled power converter is rated at 350 watts and offers 12V DC input and 120V AC output @ 50/60 Hz. Designed for surface-mounting applications, AC output is accessible by two, GFCI receptacles.**

The MT-IVT-12VDC-350VA-120VAC-R1 provides a safe and effective way for users to tap into and utilize 12V DC power sources and step up this current to 120V AC. Rated at 350 watts, this pure sine wave unit can be operated with input current ranging from 10.5V DC to 16.5V DC and an output current ranging from 100V AC to 120V 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 700 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 (#6 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-12VDC-350VA-120VAC-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 12 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 12 volts is 20 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.

**Specifications / Additional Information****MT-IVT-12VDC-350VA-120VAC-R1 - DC to AC Step-up Transformer Ratings/Features****Unit Type:** Step Up Transformer

Certified FCC Class B

**Dimensions:** 12.99" x 7.87" x 3.27"

DIP Switch Selectable Output Voltage/Frequency

**Weight:** 5.7 lbs

Adjustable Power Saving Mode

**Line In Voltage:** 12V DC (10.5V DC - 16.5V DC)

Advanced Microprocessor

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

Fully Isolated Input/Output

**Rated Power:** 350W**Output Frequency:** 50/60 Hz (+/- 5%)**Waveform:** Pure Sine Wave**Efficiency:** 90% Maximum**No Load Power Consumption @ Save Mode:** < 0.1A @ 12V DC**No Load Power Consumption @ No Load Mode:** < 1.5A @ 12V DC**Full Load Efficiency:** 88%**Input Under Voltage Protection:** 10.5V  $\pm$  0.3V DC**Input Under Voltage Alarm:** 11V DC  $\pm$  0.3V DC**Input Under Voltage Recovery:** 12.5V DC  $\pm$  0.3V DC**Input Over Voltage Protection:** 16.5V DC  $\pm$  0.3V DC**Input Over Voltage Recover:** 14.5V DC  $\pm$  0.3V 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:** 700W 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 (#6 AWG)**Special Orders- Requirements**

Contact us for special requirements

**Toll Free:** 1-800-369-6671**Intl:** +01-903-498-3364

**AC Output Receptacles:** (2) GFCI

**Fax:** 1-903-498-3364

**Color:** Blue, Black

**E-mail:** [sales@larsonelectronics.com](mailto:sales@larsonelectronics.com)

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Part #: MT-IVT-12VDC-350VA-120VAC-R1 (222435)

Links (Click on the below items to view):

- [Hi-Res Image 1- Step Up DC to AC Transformer](#)