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MT-VCT-120VAC-1.25KW-125VDC-N12

1.25KW AC to DC Rectifier - 120V AC to 125V DC - NEMA 12

Product ID: 321919

Image: MT-VCT-120VAC-1.25KW-125VDC-N12

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-VCT-120VAC-1.25KW-125VDC-N12 AC to DC Converter

Unit Type: AC to DC Converter
Dimensions: 10.24"-D, 10.24"-W, 8.66"-H
Weight: 57.32 lbs
Input Voltage: 120V AC ±10%
Input Frequency: 60 Hz
Output Power: 1.25 KW
Output Voltage: 125V DC ±5%
Rated Output Current: 10 A at 125V DC
Recommended Battery Bank: 125V DC, 30Ah
Battery Charging Current: Up to 10 A with no DC load; 10 A minus DC load current otherwise. Must not exceed battery manufacturer limit
Battery Charging Voltage: Compatible with rectifier output
Maximum Fluctuation: ±2%
Minimum Power Factor: 0.8
Fluctuation Without Connecting Battery: ±1% Vn
Equalizing Timer: 0-24 Hrs
Undervoltage Protection: Included
DC Digital Voltmeter: Included, 1.5% precision
AC Digital Voltmeter: Included, 1.5% precision
Equalizing Voltage Adjustment: Included
Floating voltage adjustment: Included
Auto/Manual Control For Equalizing Voltage: Included
Rear Terminals: (3) Input Terminals (L, N, PE), (2) DC Output Terminals, (2) Battery Temp Compensation Sensor Terminals, (3) Remote Alarm Dry Contact Terminals (NO/NC/COM), (1) Ground Lug Terminal

Ratings/Features

NEMA 12 Rated
Natural Forced Cooling
Compatible with MasterBus
V6 HF Switch Mode
Complies with EN 50091-2 (EMC)
Complies with EN 50091-1 (Security)
LED Display

Communication Interface: Ethernet
Protection Level: NEMA 12
Cable Entry: Bottom Entry
Operating Temperature: -10 / +40°C
Relative Humidity: 5-90%
Operating Altitude: Max.9850ft
Noise Level: Max. 60 dBA

Special Orders - Special Requirements
Contact us for special requirements
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The Larson Electronics MT-VCT-120VAC-1.25KW-125VDC-N12 AC to DC converter converts AC input to DC output in industrial sites. This power converter is rated at 1,250 watts continuous and offers 120V AC input and 125V DC output. The NEMA 12 rated device offers the following protective features: short circuit, overload, over temperature, high battery and low battery.

The MT-VCT-120VAC-1.25KW-125VDC-N12 provides a safe and effective way for users to tap into and utilize 120V AC voltage to be converted to 125V DC. Rated at 1,250 watts (continuous), this true sine wave unit can be operated with low voltage 120V AC input voltage and 125V DC output voltage. The transformer provides short circuit, overload, over temperature, high battery and low battery protection. Peak wattage for this unit is 20,000W (short-term use only, not for extended periods). The rectifier provides 10 A output at 125V DC. The recommended battery bank is 125V DC, 30Ah. The charging current available to the battery depends on the connected DC load (up to 10 A with no load connected; for example, a 5 A load leaves up to 5 A for charging) and must remain within the battery manufacturer's recommended charging current limit. The battery charging voltage must be compatible with the rectifier's output.

This AC to DC transformer offers a -10°C to 40°C operating temperature range. The unit has a 92% conversion efficiency and is Master-Bus compatible. Cooling is facilitated by natural and forced mechanisms.

Wiring/Connections: AC connections can be completed inside the unit. This inverter accepts 70 mm² minimum cable size.

Mounting: The MT-VCT-120VAC-1.25KW-125VDC-N12 caters to surface and wall mounting applications via openings on the back of the transformer.

Applications: Voltage rectification, power conversion, AC to DC transformer, AC to DC conversion, solar-powered systems, power supply, engine rooms 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