

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

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

Product ID: 321919

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



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 $\pm 10\%$

Input Frequency: 60 Hz

Output Power: 1.25 KW

Output Voltage: 125V DC $\pm 5\%$

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: $\pm 2\%$

Minimum Power Factor: 0.8

Fluctuation Without Connecting Battery: $\pm 1\%$ 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

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

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

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

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

Fax: 1-903-765-7664

E-mail: sales@larsonelectronics.com

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.

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Frequently Asked Questions (FAQ)

There are no Fags



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