Mounting the Unit

The recommended way of mounting is to screw the unit to a wooden surface using the #4 wood screw included.

Limited Warranty

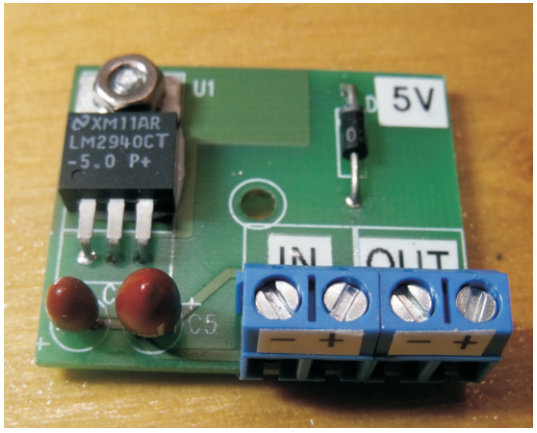
This product is warranted against defects in parts or workmanship for a period of 1 year from date of purchase. EA Electronics does not assume any liability arising out of the use of this product.

This warranty is void if the product has been physically damaged or has been connected to a power source with the positive and negative wires reversed or operated above the maximum voltage. Any user modifications to the unit will void this warranty.

Technical Support

Contact us by email: email@eaelec.com

EA Electronics
Truro, Nova Scotia
www.eaelec.com



VRR-5
USER'S MANUAL

VRR-5
Rectifier & Voltage Regulator
With 5 Volt Output

Made in Canada by:
EA Electronics
Truro, Nova Scotia
www.eaelec.com

Rev. 0

Introduction

The VRR-5 is rectifier plus voltage regulator with a fixed 5 volt DC output to supply power for lighting model railroad buildings. It can be powered by either AC, DC or DCC input power. The VRR-5 can deliver up to 1 amp of output current. It is equipped with screw terminals for easy, no-soldering connection.

The VRR-5 is perfect for powering our IL-1 (or IL-2) building illumination boards.

VRR-5 Specifications

Input voltage range: 6 to 25 volts AC or DC.

Output voltage 5 volts (+ or - 5%):

Output current: Up to 1 amp.

Short-Circuit current limited to 1.6 amps

One year limited warranty.

Size:
1.4" x 1.32" x 0.5"
35mm x 33 mm x 8 mm.

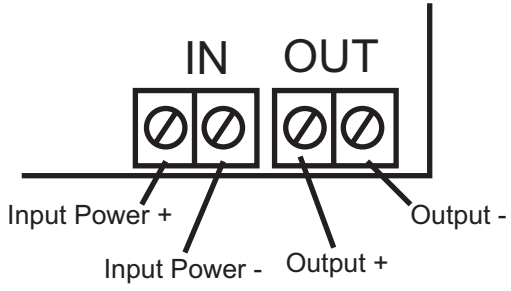
Connecting The VRR-5

Since the VRR-5 is a equipped with an input rectifier it can be powered from any AC or DC power source between 6 volts to 25 volts. This source could be the 19 VAC output on the MRC powerpacks, the track power on a DCC system or “wall-wart” type power adapter.

If using AC or DCC input power you can ignore the + and - polarity on the input terminals; these are only important if you are using a DC power source. On the output, the + terminal should always be connected to the red wire on the IL-1 and the - terminal should always be connected to the black wire on the IL-1.

Use 18, 20 or 22 gauge wire. First strip 1/4 inch (5 mm) of insulation off the end of the wire to be connected. Then insert the wire into the terminal and tighten the screw.

VRR-5 Power Connections



Typical Application (under layout)