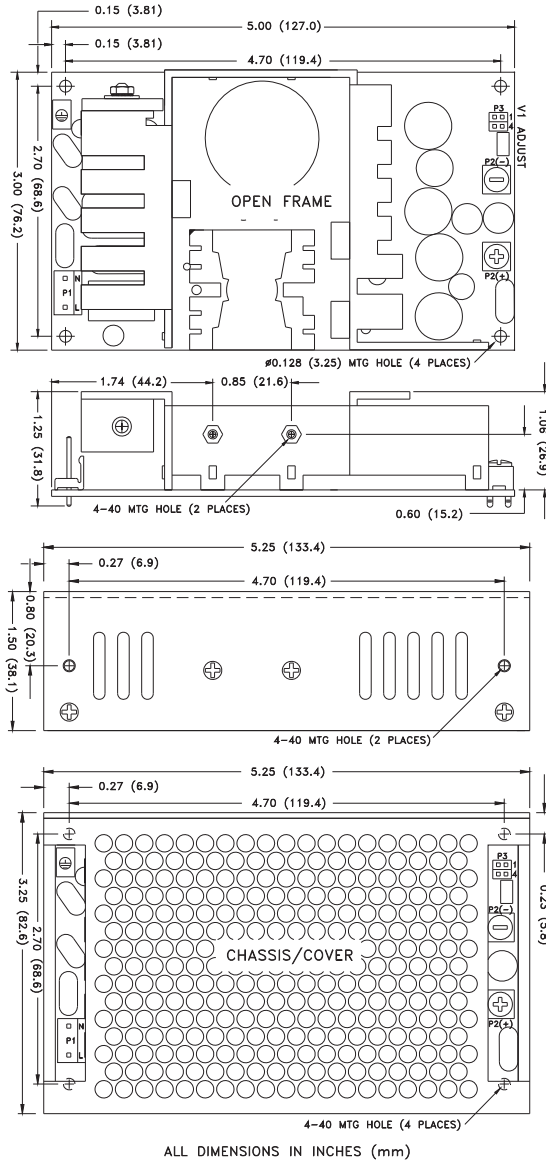




## GRN-110 SINGLE MECHANICAL SPECIFICATIONS



## CONNECTOR SPECIFICATIONS

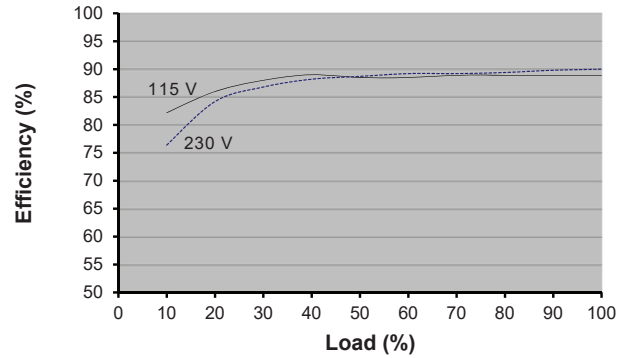
<p><b>P1</b></p> <p>NEUTRAL LINE</p>	<p>AC Input</p>	<p>0.156 friction lock header mates with Tyco 640250-3 or equivalent crimp housing with Tyco 640706-1 or equivalent crimp terminal.</p>
<p><b>P2</b></p> <p>(+) OUTPUT</p> <p>(-) OUTPUT</p>	<p>DC Output</p>	<p>6-32 screw down terminal mates with #6 ring tongue terminal (10in-lb Max.)</p>
<p><b>P3</b></p> <p>(+) SENSE</p> <p>(-) SENSE</p> <p>(+) OUTPUT</p> <p>(-) OUTPUT</p>	<p>Remote Sense</p>	<p>0.100 breakaway header mates with Molex 22-55-2041 or equivalent crimp terminal housing with Molex 71851 or equivalent crimp terminal.</p>
	<p>Ground</p>	<p>0.187 quick disconnect terminal</p>

## APPLICATIONS INFORMATION

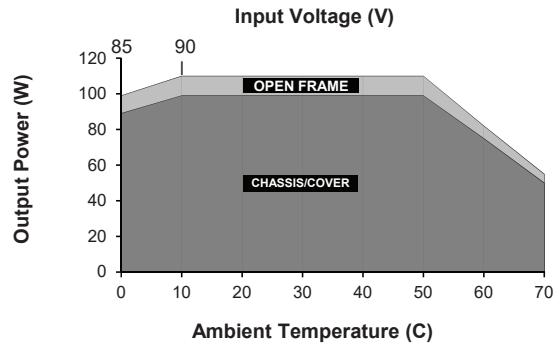
- Continuous Output Power must not exceed 110W.
- Generally, adequate cooling is provided when semiconductor case temperatures do not exceed 70°C rise and transformer temperature does not exceed 60°C rise at any specified ambient temperature.
- Sufficient area must be provided around power supply to allow natural movement of air to develop in convection-cooled applications.
- This product is intended for use as a professionally-installed component within information technology, industrial, and medical equipment and is not intended for stand-alone operation.
- This product includes only one fuse in the input circuit. In consideration of clause 8.11.5 of IEC 60601-1-1:2005, a second fuse may be required in neutral conductor of the end product.
- Peak-to-Peak Output Ripple and Noise is measured directly at the output terminals of the power supply, without the use of the probe ground lead or retractable tip (tip-and-barrel method), 20 MHz bandwidth.
- This product was type-tested and safety-certified using the dielectric strength test voltages listed in Table 6 of IEC60601-1:2005. In consideration of clause 8.8.3, care must be taken to insure that the voltage applied to a reinforced insulation does not overstress different types and levels of insulation. Primary and secondary-to-ground capacitors may need to be disconnected prior to performing a dielectric strength type test on the power supply or the end product. It is highly recommended that the DC test voltage listed in DVB.1, annex DVB of UL60601-1 1<sup>ST</sup> Edition are not exceeded during a production-line dielectric strength test of the assembled end product. Please consult factory for further information.
- This power supply has been safety-approved and final-tested using a DC dielectric strength test. Please consult factory before performing an AC dielectric strength test.
- Remote-Sense terminals may be used to compensate for cable losses up to 400mV, depending on model. The use of a twisted pair, decoupling capacitors and an appropriately-rated low-impedance capacitor connected across the load will increase noise immunity.
- Maximum screw penetration into bottom chassis mounting holes is 0.100 inches. Maximum screw penetration into side chassis mounting holes is 0.188 inches.
- To comply with emissions specifications, all four mounting hole pads must be electrically connected to a common metal chassis. Chassis/Cover option is recommended. Refer to Operating Instructions for additional information.
- Common RF shielding precautions may need to be taken to assure emissions compliance. Refer to Operating Instructions for additional information.

## TYPICAL EFFICIENCY vs. LOAD

(Model GRN-110-1004 Efficiency shown)



## MAX P<sub>OUT</sub> vs. AMBIENT TEMPERATURE/INPUT VOLTAGE



Derating requirements - Derate from 100% load at 50°C to 50% load at 70°C.  
 - Derate from 100% load at 90V<sub>IN</sub> to 90% load at 85V<sub>IN</sub>.  
 - Derate 10% with chassis and cover.

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