1 Photo
2 EFFICIENCY

Since measuring AC to DC efficiency tends to be not as accurate, DC to DC efficiency was also measured. The DC was applied after the ac bridge at various output currents and 150 v DC.

<table>
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<th>dc v in</th>
<th>I in</th>
<th>p in</th>
<th>v out</th>
<th>I out</th>
<th>p out</th>
<th>efficiency</th>
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<td>93.15483</td>
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from AC meter

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<th>I out</th>
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<th>efficiency</th>
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</tbody>
</table>
Efficiency V.S. output current
3 Output load characteristics

Output current and voltage

The power supply is set up to be constant voltage-constant current. The voltage and current are set by fixed resistor values and could be set by micro-processor in the actual product.
4 Input line at 7.8 amp load

Blue is current, orange is 120Vac
5 Thermal image

Image taken at full load in still air at 24 deg C. The hottest part on the board is the snubber Rs and the diode bridge.
6 Dain wave forms. Voltage across the transformer primary

At 7.7 amp load and 100Vdc in

At 7.7 amp load and 180Vdc in
Voltage across the Tx and the current sense pin of the IC at full load

At no load
At half load
7 Constant voltage mode load step response

Blue is the load current step, orange is the output voltage response
8 Output ripple

At full load
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