1. AC Input

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Vin</td>
<td>103 Vrms</td>
<td>115 – 240 Vrms</td>
<td>264 Vrms</td>
</tr>
<tr>
<td>Vin Frequency</td>
<td>47 Hz</td>
<td>50 / 60 Hz</td>
<td>63 Hz</td>
</tr>
</tbody>
</table>

2. Efficiency
80% typically at 50% ROL and 115 & 230 Vrms input voltage.

3. DC Output Regulation

<table>
<thead>
<tr>
<th>Output</th>
<th>Tolerance</th>
<th>Min.</th>
<th>Nom.</th>
<th>Max.</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>+5V</td>
<td>+/- 5%</td>
<td>+4.75</td>
<td>+5.00</td>
<td>+5.25</td>
<td>Volts</td>
</tr>
<tr>
<td>+3.3V</td>
<td>+/- 5%</td>
<td>+3.14</td>
<td>+3.30</td>
<td>+3.47</td>
<td>Volts</td>
</tr>
<tr>
<td>+12V1</td>
<td>+/- 5%</td>
<td>+11.40</td>
<td>+12.00</td>
<td>+12.60</td>
<td>Volts</td>
</tr>
<tr>
<td>+12V2</td>
<td>+/- 5%</td>
<td>+11.40</td>
<td>+12.00</td>
<td>+12.60</td>
<td>Volts</td>
</tr>
<tr>
<td>-12V</td>
<td>+/- 10%</td>
<td>-10.80</td>
<td>-12.00</td>
<td>-13.20</td>
<td>Volts</td>
</tr>
<tr>
<td>+5Vsb</td>
<td>+/- 5%</td>
<td>+4.75</td>
<td>+5.00</td>
<td>+5.25</td>
<td>Volts</td>
</tr>
</tbody>
</table>

4. DC Output Load

<table>
<thead>
<tr>
<th>DC Output</th>
<th>+5V</th>
<th>+3.3V</th>
<th>+12V1</th>
<th>+12V2</th>
<th>-12V</th>
<th>+5Vsb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Output Voltage (V)</td>
<td>5</td>
<td>3.3</td>
<td>12</td>
<td>12</td>
<td>-12</td>
<td>5</td>
</tr>
<tr>
<td>Min. Current (A)</td>
<td>1</td>
<td>0.5</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Max. Current (A)</td>
<td>18</td>
<td>22</td>
<td>17</td>
<td>17</td>
<td>0.6</td>
<td>3</td>
</tr>
<tr>
<td>Peak Current (A)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3.5</td>
</tr>
<tr>
<td>Max. Power (W)</td>
<td>90</td>
<td>72.6</td>
<td>204</td>
<td>204</td>
<td>7.2</td>
<td>15</td>
</tr>
<tr>
<td>Combined Max. Power (W)</td>
<td>130</td>
<td>408</td>
<td>7.2</td>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Max. Output Power (W)</td>
<td></td>
<td></td>
<td>500</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

5. Hold Up Time
10 mS @ 230 Vrms / 50 Hz, Full Load

6. Rise Time
2 ~ 20 mS

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Model No.: GP-AP500CA

7. Acoustics Noise
0 ~ 25 dBA (Under 50% ROL and 25 °C ambient temperature)

8. Protections
SCP, OVP, OCP, OPP, OTP

9. Over Voltage Protection

```
<table>
<thead>
<tr>
<th>Output</th>
<th>Min.</th>
<th>Nom.</th>
<th>Max.</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>+3.3 Vdc</td>
<td>3.7</td>
<td>4.2</td>
<td>4.3</td>
<td>Volts</td>
</tr>
<tr>
<td>+5 Vdc</td>
<td>5.7</td>
<td>6.3</td>
<td>7.0</td>
<td>Volts</td>
</tr>
<tr>
<td>+12 Vdc</td>
<td>13.4</td>
<td>15.0</td>
<td>15.6</td>
<td>Volts</td>
</tr>
</tbody>
</table>
```

10. Operating Temperature
0°C to +50°C for 0% ~ 85% Load
0°C to +35°C for 85% ~ 100% Load

11. Safety (Compliance With)
UL 60950 3rd Edition –CAN/CSA-C22.2-60950-00,
EN60 950 3rd Edition
IEC60 950 3rd Edition (CB Report to include all national deviations)
EU Low Voltage Directive (73/23/EEC) (CE Compliance)
GB4943-90 CCIB (China)

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12. Mechanical Outline