25W Single Output Switching Power Supply

**Features:**
- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 100% full load burn-in test

### SPECIFICATION

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DC VOLTAGE</th>
<th>DC CURRENT</th>
<th>RATED POWER</th>
<th>RIPPLE &amp; NOISE</th>
<th>FREQUENCY RANGE</th>
<th>EFFICIENCY</th>
<th>AC CURRENT</th>
<th>INrush CURRENT</th>
<th>LEAKAGE CURRENT</th>
<th>OVERLOAD</th>
<th>OVER VOLTAGE</th>
<th>WORKING TEMPERATURE</th>
<th>WORKING HUMIDITY</th>
<th>STORAGE TEMPERATURE</th>
<th>VIBRATION</th>
<th>SAFETY EMC</th>
<th>PACKING</th>
</tr>
</thead>
<tbody>
<tr>
<td>NES-25-5</td>
<td>5V</td>
<td>0.5A</td>
<td>25W</td>
<td>120mm</td>
<td>47 - 63Hz</td>
<td>78%</td>
<td>0.15A</td>
<td>COLD START</td>
<td>2mA</td>
<td>110 - 165% rated output power</td>
<td>5.3V - 7.0V</td>
<td>25°C to 70°C</td>
<td>30% to 95% RH, non-condensing</td>
<td>40°C to 60°C</td>
<td>30°C to 90°C</td>
<td>0.5kg (incl. 14.5kg±5% CARTON)</td>
<td></td>
</tr>
<tr>
<td>NES-25-12</td>
<td>12V</td>
<td>1.5A</td>
<td>35W</td>
<td>150mm</td>
<td>47 - 63Hz</td>
<td>83%</td>
<td>0.35A</td>
<td>2mA</td>
<td>110 - 165% rated output power</td>
<td>5.3V - 7.0V</td>
<td>25°C to 70°C</td>
<td>30% to 95% RH, non-condensing</td>
<td>40°C to 60°C</td>
<td>30°C to 90°C</td>
<td>0.5kg (incl. 14.5kg±5% CARTON)</td>
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<td></td>
</tr>
<tr>
<td>NES-25-15</td>
<td>15V</td>
<td>2.5A</td>
<td>50W</td>
<td>150mm</td>
<td>47 - 63Hz</td>
<td>84%</td>
<td>0.5A</td>
<td>2mA</td>
<td>110 - 165% rated output power</td>
<td>5.3V - 7.0V</td>
<td>25°C to 70°C</td>
<td>30% to 95% RH, non-condensing</td>
<td>40°C to 60°C</td>
<td>30°C to 90°C</td>
<td>0.5kg (incl. 14.5kg±5% CARTON)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NES-25-24</td>
<td>24V</td>
<td>4.5A</td>
<td>100W</td>
<td>150mm</td>
<td>47 - 63Hz</td>
<td>88%</td>
<td>0.35A</td>
<td>2mA</td>
<td>110 - 165% rated output power</td>
<td>5.3V - 7.0V</td>
<td>25°C to 70°C</td>
<td>30% to 95% RH, non-condensing</td>
<td>40°C to 60°C</td>
<td>30°C to 90°C</td>
<td>0.5kg (incl. 14.5kg±5% CARTON)</td>
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<tr>
<td>NES-25-48</td>
<td>48V</td>
<td>8.5A</td>
<td>220W</td>
<td>150mm</td>
<td>47 - 63Hz</td>
<td>84%</td>
<td>0.35A</td>
<td>2mA</td>
<td>110 - 165% rated output power</td>
<td>5.3V - 7.0V</td>
<td>25°C to 70°C</td>
<td>30% to 95% RH, non-condensing</td>
<td>40°C to 60°C</td>
<td>30°C to 90°C</td>
<td>0.5kg (incl. 14.5kg±5% CARTON)</td>
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</tbody>
</table>

### Block Diagram

![Block Diagram of 25W Single Output Switching Power Supply](image)

### Mechanical Specification

- **Case:** 932B
- **Unit:** mm

### Derating Curve

- **Ambient Temperature (°C):**
  - 0°C to 55°C
  - Load (%) vs.s.

### Output Derating VS Input Voltage

- **Load (%) vs.s.**
  - Input Voltage (VAC): 60Hz
  - 5V

### Notes:
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 25MHz input bandwidth with a 12” shielded pair wire terminated with a 0.1uf 6.3V AC filter capacitor.
3. Efficiency: Includes set up tolerance, line regulation and load regulation.
4. Line regulation is measured from low line to high line at rated load.
5. Load regulation is measured from 0% to 100%, rated load.
6. For the input of GB4843.1, the power supply is only suitable for use in the altitude of 2000m below and the non tropical climate condition.
7. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-certified that it still meets EMC directives. For guidance on how to perform EMC tests, please refer to "EMI testing of component power supplies" (see available at http://www.meanwell.com)