### SPECIFICATION

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DC VOLTAGE</th>
<th>RATED CURRENT</th>
<th>CURRENT RANGE</th>
<th>RATED POWER</th>
<th>LED INDICATED</th>
<th>VOLTAGE RANGE</th>
<th>FREQUENCY RANGE</th>
<th>POWER FACTOR (Typ.)</th>
<th>EFFICIENCY (Typ.)</th>
<th>AC CURRENT (Typ.)</th>
<th>INRUSH CURRENT (Typ.)</th>
<th>LEAKAGE CURRENT</th>
<th>OVERLOAD</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA/PB-120-13</td>
<td>13.8V</td>
<td>7.2A</td>
<td>0 ~ 7.2A</td>
<td>99.36W</td>
<td>PA series voltage 105% ±1% ↓ : RED / 102% ±1% ↑ : GREEN</td>
<td>88 ~ 132VAC / 176 ~ 284VAC selected by switch</td>
<td>47 ~ 63Hz</td>
<td>&gt;0.65 (with PFC series)</td>
<td>73%</td>
<td>3A/115VAC</td>
<td>COLD START 25A/115VAC</td>
<td>&lt;1.5mA / 240VAC</td>
<td>90 ~ 110%</td>
</tr>
<tr>
<td>PA/PB-120-27</td>
<td>27.6V</td>
<td>4.3A</td>
<td>0 ~ 4.3A</td>
<td>118.68W</td>
<td>PB series load 46% ±10% ↓ : GREEN / 46% ±10% ↑ : RED</td>
<td>248 ~ 370VDC</td>
<td></td>
<td>79%</td>
<td>1.5A/230VAC</td>
<td>50A/230VAC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PA/PB-120-54</td>
<td>55.2V</td>
<td>2.2A</td>
<td>0 ~ 2.2A</td>
<td>121.44W</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>79%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### OUTPUT
- DC VOLTAGE
- RATED CURRENT
- CURRENT RANGE
- RATED POWER
- LED INDICATED
- VOLTAGE RANGE
- FREQUENCY RANGE
- POWER FACTOR (Typ.): >0.65 (with PFC series)
- EFFICIENCY (Typ.): 73%
- AC CURRENT (Typ.): 3A/115VAC
- INRUSH CURRENT (Typ.): COLD START 25A/115VAC
- LEAKAGE CURRENT: <1.5mA / 240VAC

#### INPUT
- OVERLOAD: 90 ~ 110% rated output power
- OVER VOLTAGE: 15 ~ 17V
- OVER TEMPERATURE: RTH2 ≥ 70° ±10°C detect on RTH2 thermistor
- WORKING TEMP.: -10 ~ +45°C (Refer to "Derating Curve")
- WORKING HUMIDITY: 20 ~ 90% RH non-condensing
- STORAGE TEMPERATURE, HUMIDITY: -20 ~ +85°C, 10 ~ 95% RH
- TEMP. COEFFICIENT: ±0.05%/°C (0 ~ 45°C)
- VIBRATION: 10 ~ 500Hz, 2g 10min./cycle, 60min. each along X, Y, Z axes

#### SAFETY & EMC
- SAFETY STANDARDS: UL60950-1, TUV EN60950-1, EN60335, EN60335-2-29 approved
- WITHSTAND VOLTAGE: I/P-O/3kVAC, I/P-FG-I/5kVAC, O/P-FG-0.5kVAC
- ISOLATION RESISTANCE: I/P-O/P, I/P-FG-I/100M Ohms / 500VDC / 25°C / 70% RH
- EMC EMISSION: Compliance to EN55022 (CISPR22) Class B, EN61000-3-2,-3
- EMC IMMUNITY: Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A

#### OTHERS
- MTBF: 149.6k hrs min. (UL-HDBK-217F (25°C))
- DIMENSION: PCB Type 144*90*33mm External case type: 180*96*49mm (L/W/H)
- PACKING: 1.1Kg; 16pcs / 17.9Kg / 1.47CUFT(without PFC) 1.24Kg; 16pcs / 20.1Kg / 1.47CUFT(with PFC)

#### NOTE
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 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
3. Tolerance: includes set up tolerance, line regulation and load regulation.
4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.
5. With PFC I/P range: 95 ~ 132VAC/190 ~ 264VAC.
6. For open P.C.B. WITH 17.8CFM min. Forced air.

---

**Features**:
- AC input range selected by switch
- Built-in passive PFC function compliance to EN61000-3-2
- With AC ON-OFF switch
- 3 poles AC inlet with fuse holder
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Charger type can be selected (Optional)
- Charger for lead-acid batteries
- 2 color LED loading indicator
- Open frame models available (Without safety approval)
- Low cost, High reliability
- 2 years warranty
Mechanical Specification

Case No. PS-120A  Unit:mm

Output cable length=183cm±5cm

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Assignment</th>
<th>Mating Housing</th>
<th>Terminal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>DC OUTPUT +V</td>
<td>JST VHR or equivalent</td>
<td>JST SVH-21T-P1.1 or equivalent</td>
</tr>
<tr>
<td>2,3</td>
<td>DC OUTPUT -V</td>
<td>JST VHR or equivalent</td>
<td>JST SVH-21T-P1.1 or equivalent</td>
</tr>
</tbody>
</table>

PCB:

AC Input Connector (CN1) : JST B3P-VH or equivalent

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Assignment</th>
<th>Mating Housing</th>
<th>Terminal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ACL</td>
<td>JST VHR or equivalent</td>
<td>JST SVH-21T-P1.1 or equivalent</td>
</tr>
<tr>
<td>2</td>
<td>No Pin</td>
<td>JST VHR or equivalent</td>
<td>JST SVH-21T-P1.1 or equivalent</td>
</tr>
<tr>
<td>3</td>
<td>AC/N</td>
<td>JST VHR or equivalent</td>
<td>JST SVH-21T-P1.1 or equivalent</td>
</tr>
</tbody>
</table>

DC Output Connector (CN3) : JST B4P-VH or equivalent

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Assignment</th>
<th>Mating Housing</th>
<th>Terminal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2</td>
<td>-V</td>
<td>JST VHR or equivalent</td>
<td>JST SVH-21T-P1.1 or equivalent</td>
</tr>
<tr>
<td>3,4</td>
<td>+V</td>
<td>JST VHR or equivalent</td>
<td>JST SVH-21T-P1.1 or equivalent</td>
</tr>
</tbody>
</table>

12VDC FAN Output Connector (CN4) : JST B2B-XH or equivalent

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Assignment</th>
<th>Mating Housing</th>
<th>Terminal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>+V</td>
<td>JST XHP or equivalent</td>
<td>JST SXH-001T-P0.6 or equivalent</td>
</tr>
<tr>
<td>2</td>
<td>-V</td>
<td>JST XHP or equivalent</td>
<td>JST SXH-001T-P0.6 or equivalent</td>
</tr>
</tbody>
</table>

115/230V selected by switch Connector (CN5) : JST B2P-VH or equivalent

<table>
<thead>
<tr>
<th>Switch</th>
<th>Assignment</th>
<th>Mating Housing</th>
<th>Terminal</th>
</tr>
</thead>
<tbody>
<tr>
<td>115V</td>
<td>Short</td>
<td>JST VHR or equivalent</td>
<td>JST SVH-21T-P1.1 or equivalent</td>
</tr>
<tr>
<td>230V</td>
<td>Open</td>
<td>JST VHR or equivalent</td>
<td>JST SVH-21T-P1.1 or equivalent</td>
</tr>
</tbody>
</table>

Derating Curve

Charging Curve

- LED COLOR: Red, Green
- Type A: Voltage detector, pulse charger
- Type B: Current detector, 2 voltage section

Charging Current

Bat. Voltage

Load (W)

Vout

105% 100%

AMBIENT TEMPERATURE (℃)

File Name:PA,PB-120-SPEC  2011-08-18
Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Mean Well: