FSP150-AJBU3

FSP180-AJBU3

FEATURES
- Certified IEC 62368-1 & CB 60950-1
- Meet USA EISA 2007
- Meet Energy Efficiency DOE Level VI
- Meet Code of Conduct Version 5 Tier 2
- High Reliability
- Low Profile
- Over Current Protection
- Over Temperature Protection
- Over Voltage Protection
- With PFC Circuit

SAFETY STANDARD APPROVAL

DESCRIPTION
This product is an 180 watts AC to DC adapter intended for use in IPC systems, embedded systems, printers, monitors, POS systems and PoE application, that have a high wattage demands. This adapter operates at 90 to 264 VAC input voltage. The unit meets CISPR32 EN55032 CLASS B, EN55024 and FCC PART 15B Class B emission limits, and is designed for ITE application.

INPUT SPECIFICATIONS

Input voltage: 90-264 VAC
Input frequency: 47-63 Hz
Input current: 100 Vac, 240 Vac / full load ≤ 1.2A
No load power consumption: 115 Vac, 230 Vac ≤ 0.5W
Touch current: 264 Vac / 50Hz ≤ 0.25mA

OUTPUT SPECIFICATIONS

Output voltage/current: See rating chart.
Total output power: 180W

Protection:
- Over voltage: The adapter will enter into shut down that means no output while over voltage happened at output terminal that caused by internal fault, the output trip voltage shall not exceed 29 volts. That will be return to normal state by AC reset.
- Short circuit & Over current: When an internal fault occurs, or an external fault is applied to the power supply, such that an overload or short circuit is applied to the output, the power supply shall shut down and enter auto-recovery mode.
- Over temperature: The power supply will enter into shut down while the abnormal thermal rise occurs. That will be return to normal state by AC reset.
- Brown-out: Set at 60 Vac~70 Vac.

Environment:
- Working TEMP.: 0~70 °C (≥ 40 °C de-rating).
- Storage TEMP.: -20~+80 °C
- Working Humidity: 20~80% RH non-condensing
- Storage Humidity: 10~90% RH non-condensing

OUTPUT SPECIFICATIONS

Power factor: 115 Vac, 230 Vac / full load ≥0.9
Provisions for adding harmonic reduction per EN 61000-3-2 must be present.

Efficiency:
- Power turn-on time: At 100 Vac / full load, output voltage shall remain regulation ≥3 Sec.
- Hold-up time: At 100 Vac or 240 Vac / full load, output voltage shall remain regulation ≥10ms.
- Inrush current: 100 Vac, 240 Vac / full load, Shall be less than the rating of adapter critical component (including rectifiers, fuse surge and current limiting device).
- Operating altitude: 5000 meters above sea level.
- Withstand voltage: Between AC input and secondary applied DC 4242V, test time 1 minute, cut off current shall be less than 10mA.
- MTBF: 100V, 240V / full load, 300,000 hours at 25 °C, standard SR332.
- EMC Performance:
  - EN55032 Class B conducted, class B radiated.
  - FCC VCCI Class B conducted, class B radiated.
  - VCCI Class B conducted, class B radiated.
  - EN61000-3-2 Meet class D.
  - EN61000-3-3 Meet regulation.
  - EN61000-4-2 Air discharge: ±15KV, contact discharge: ±8KV, meet criterion A.
  - EN61000-4-3 80~1000MHz: 3V/m, 80% AM(1KHz), meet criterion A.
  - EN61000-4-4 Impulse: ±1KV applied to L,N,meet criterion A.
  - EN61000-4-5 ±1KV applied differential mode, ±2KV applied common mode meet criterion A.
  - EN61000-4-6 0.15~80 MHz, 3V/m, 80% AM(1KHz), meet criterion A.
  - EN61000-4-8 50 Hz or 60Hz, 1A/m, meet criterion A.
  - EN61000-4-11 Voltage Dips:
    - >95% reduction for 0.5 period, meet criterion B 30% reduction for 25 period, meet criterion C.
    - Voltage Interruptions:
      - >95% reduction for 25 period, meet criterion C.
  - Power de-rating:
    - 100V or 240Vac, 0°C to 40°C, 100% load, 50°C, 85% load, 60°C, 70% load, 70°C, 55% load (Shall be less than the rating of adapter critical component, follow FSP specification (adapter)).
## OUTPUT VOLTAGE/CURRENT RATING CHART

<table>
<thead>
<tr>
<th>Model</th>
<th>Output Voltage</th>
<th>Output Current</th>
<th>AC Inlet</th>
<th>Efficiency DOE(Level VI)</th>
<th>Efficiency CoC V5 (Tier 2)</th>
<th>Over Voltage Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSP150-AJBU3</td>
<td>19.5V</td>
<td>7.70A</td>
<td>C6</td>
<td>≥ 88%</td>
<td>≥ 89%</td>
<td>29 Volts</td>
</tr>
<tr>
<td>FSP180-AJBU3</td>
<td>19.5V</td>
<td>9.23A</td>
<td>C6</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
MECHANICAL & AC CONNECTOR SPECIFICATIONS
FSP150-AJBU3 & FSP180-AJBU3