

180W 19V Adapter

FSP150-AJBU3 & FSP180-AJBU3



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.

Efficiency:

MTBF:

INPUT SPECIFICATIONS

Input voltage: 90-264 VAC Input frequency: 47-63 Hz

100Vac, 240Vac / full load \leq 1.2A Input current: No load power consumption: 115Vac, $230Vac \le 0.5W$ Touch current: $264Vac / 50Hz \leq 0.25mA$

OUTPUT SPECIFICATIONS

See rating chart. Output voltage/current:

Total output power: 180W

Protection:

The adapter will enter into shut down that Over voltage:

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. Set at 60Vac~70Vac

Brown-out:

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.

IUTPUT SPECIFICATIONS

Power factor: 115Vac, 230Vac / full load > 0.9

Provisions for adding harmonic reduction per EN 61000-3-2

must be present. See rating chart.

At 100Vac / full load, output voltage shall remain regulation ≤3 Power turn-on time:

Sec

At 100Vac or 240Vac / full load, output voltage shall remain Hold-up time:

 $regulation \geq 10 ms.$

Inrush current: 100Vac, 240Vac / full load , Shall be less than the rating of

adapter critical component (including rectifiers, fuse surge and current limiting device).

5000 meters above sea level.

Operating altitude: Withstand voltage: Between AC input and secondary applied DC 4242V, test time

1 minute, cut off current shall be less than 10mA.

100Vac, 240Vac / 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.

FN61000-4-6 0.15~80 MHz, 3Vrms, 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 250 period, meet criterion C.

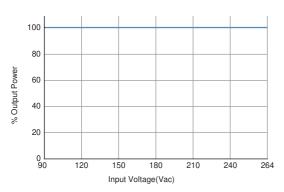
Power de-rating: 100Vac or 240Vac, 0°C to 40°C, 100% load, 50°C, 85% load, 60°C, 70% load, 70°C, 55% load (Shall be less than the rating

of adapter critical component, follow FSP specification

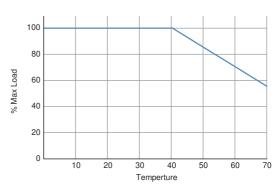
(adapter))

TECHNICAL DATASHEET 180W 19V Adapter FSP150-AJBU3 & FSP180-AJBU3

INPUT VOLTAGE DERATING CURVE



OUTPUT POWER DERATING CURVE



OUTPUT VOLTAGE/CURRENT RATING CHART

Model	Output Voltage	Output Current	AC Inlet	Efficiency		Over Voltage
				DOE(Level VI)	CoC V5 (Tier 2)	Protection
FSP150-AJBU3	19.5V	7.70A	C6	≥88%	≧89%	29 Volts
FSP180-AJBU3	19.5V	9.23A	C6			

TECHNICAL DATASHEET

180W 19V Adapter FSP150-AJBU3 & FSP180-AJBU3

MECHANICAL & AC CONNECTOR SPECIFICATIONS

FSP150-AJBU3 & FSP180-AJBU3

