

## 230W Adapter

## FSP230-AxAN3 Series



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#### **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 a 230 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**

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

Input current: 100Vac, 240Vac / full load ≤ 3A 115Vac , 230Vac  $\leq$  0.5W 264Vac / 50Hz  $\leq$  0.25mA No load power consumption Touch current:

## **OUTPUT SPECIFICATIONS**

See rating chart 230W Output voltage/current:

Total output power:

Protection:

The adapter will enter into shut down Over voltage: that means no output while over voltage happened at output terminal that caused

by internal fault, the output trip voltage shall not exceed 29/37\* volts. That will be return to normal state by AC reset. 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

Short circuit &

Over current:

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

## **INPUT SPECIFICATIONS**

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

Provisions for adding harmonic reduction per EN

61000-3-2 must be present.

Efficiency: See rating chart

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

regulation  $\leq$  3Sec

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

remain regulation ≥10ms

Inrush current: 100Vac, 240Vac / 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

Between AC input and secondary applied DC 4242V,test Withstand voltage: time 1 minute, cut off current shall be less than 10mA MTBF:

100Vac, 240Vac / full load, 300,000 hours at 25°C,

standard SR332

EMC Performance: Class B conducted, class B radiated EN55032 Class B conducted, class B radiated Class B conducted, class B radiated **FCC** 

VCCI Meet class D EN61000-3-2 Meet regulation

Air discharge: ±15 KV,contact discharge: ±8KV, meet EN61000-3-3

criterion A

EN61000-4-2

80 ~1000 MHz,3V/m,80% AM(1kHz), meet criterion A Impulse: ±1kV applied to L,N,meet criterion A EN61000-4-3 EN61000-4-4 ±1kV applied differential mode, ±2kV applied common

FN61000-4-5 mode, meet criterion A

0.15 ~ 80 MHz,3Vrms,80% AM(1kHz),meet criterion A FN61000-4-6

FN61000-4-8 50 Hz or 60Hz,1A/m,meet criterion A

Voltage Dips FN61000-4-11

>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 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 Power de-rating:

the rating of adapter critical component, follow FSP

specification (adapter))

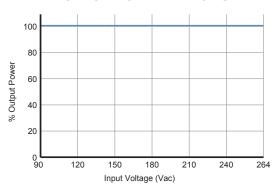
Notes

\*Volts express by order of FSP230-AJAN3/FSP230-AAAN3

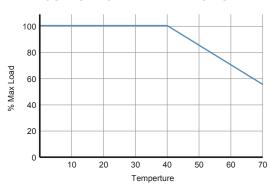
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## **INPUT VOLTAGE DERATING CURVE**



## **OUTPUT POWER DERATING CURVE**



### **OUTPUT VOLTAGE/CURRENT RATING CHART**

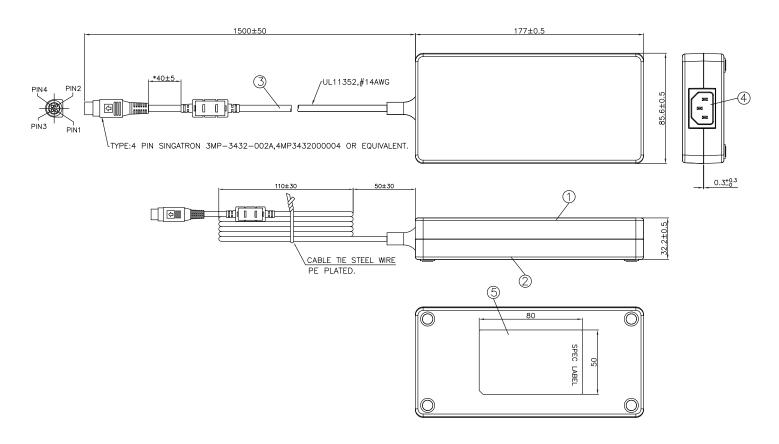
Model	Output Voltage	Output Current	AC Inlet	Efficiency		Over Voltage
				DOE(Level VI)	CoC V5 (Tier 2)	Protection
FSP230-AJAN3	19.5V	11.79A	C14	- ≧88%	≧89%	29 Volts
FSP230-AAAN3	24V	9.58A	C14			37 Volts



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### **MECHANICAL SPECIFICATIONS**



## **CONNECTOR SPECIFICATIONS**

