

### TECHNICAL DATASHEET

# 150W Adapter

FSP150-AxxN3 Series



Tel.: +49(0) 21 61 - 49 52 6-0, Fax: +49(0) 21 61 - 49 52 -629



# FSP150-AxxN3 Series

#### **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 150 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

100Vac,  $\frac{1}{2}$ 40Vac / full load  $\leq 2$ A Input current: 115Vac , 230Vac ≦ 0.15W 264Vac / 50Hz ≦ 0.25mA No load power consumption Touch current:

### **OUTPUT SPECIFICATIONS**

Output voltage/current: See rating chart

Total output power:

Over voltage:

150W

Protection:

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 19/29/37/63/66\* volts That will be return to normal state by AC

reset

When an internal fault occurs, or an Short circuit & Over current:

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.

The power supply will enter into shut Over temperature: 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 10~90% RH non-condensing Storage Humidity

# **INPUT SPECIFICATIONS**

115Vac, 230Vac / full load  $\geq 0.9$ 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 ≦ 3Sec At 100Vac or 240Vac / full load, output voltage shall Hold-up time:

remain regulation ≥10ms 100Vac, 240Vac / full load Inrush current: Leakage current: At 264Vac,50HZ ≤ 0.25mA 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

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

standard SR332

**EMC Performance:** 

EN55032 Class B conducted, class B radiated **FCC** Class B conducted, class B radiated VCCI Class B conducted, class B radiated

EN61000-3-2 Meet class D EN61000-3-3 Meet regulation

Air discharge: ±15 KV,contact discharge: ±8KV, meet EN61000-4-2

criterion A

EN61000-4-3 80 ~1000 MHz, 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 100Vac or 240Vac,0°C to 40°C,100% load,50°C,85% load,60°C,70% load,70°C,55% load Power de-rating:

(Shall be less than the rating of adapter critical component, follow FSP specification (adapter))

### NOTES:

\*Volts express by order of 150-AHxN3/ ABxN3/ AAxN3 / AFxN3/ AWxN3

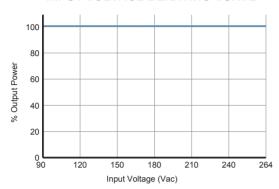


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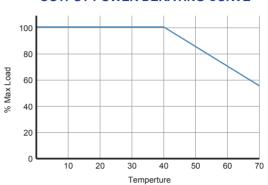


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# **INPUT VOLTAGE DERATING CURVE**



# **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
FSP150-AHAN3	12V	12.5A	C14	≥88%	≥89%	19 Volts
FSP150-AHBN3	12V	12.5A	C6			
FSP150-ABAN3	19V	7.89A	C14			29 Volts
FSP150-ABBN3	19V	7.89A	C6			
FSP150-AAAN3	24V	6.25A	C14			37 Volts
FSP150-AABN3	24V	6.25A	C6			
FSP150-AFAN3	48V	3.13A	C14			63 Volts
FSP150-AFBN3	48V	3.125A	C6			
FSP150-AWAN3	54V	2.78A	C14			66 Volts
FSP150-AWBN3	54V	2.78A	C6			



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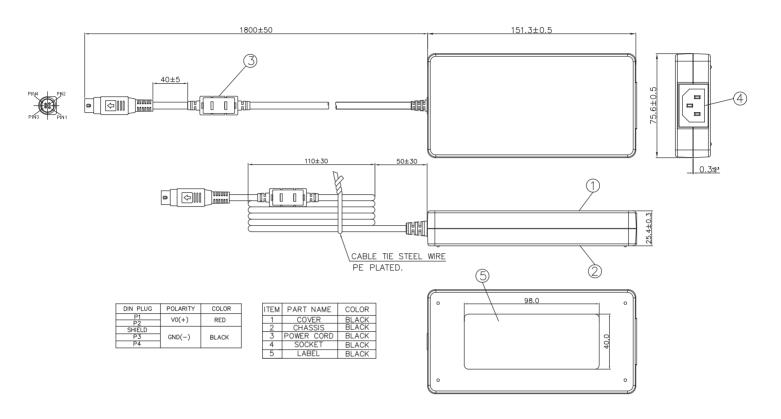
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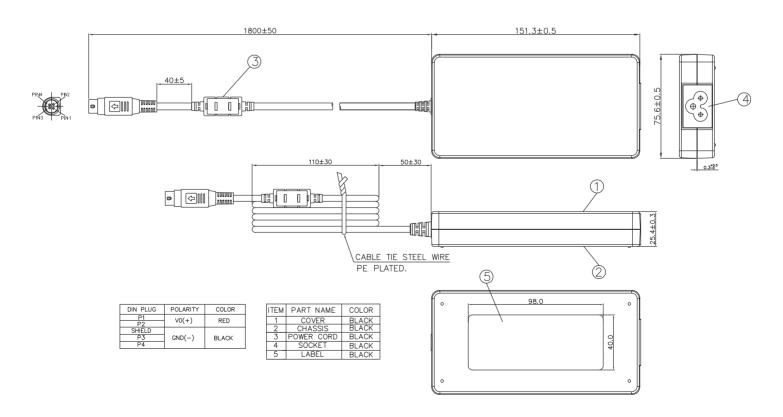


## **MECHANICAL SPECIFICATIONS**

FSP150-AXAN3



### FSP150-AXBN3





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## **CONNECTOR SPECIFICATIONS**

