## 120W Adapter

FSP120-AxxN3 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 an 120 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 ≤ 1.2A 115Vac , 230Vac  $\leq$  0.5W 264Vac / 50Hz  $\leq$  0.25mA No load power consumption Touch current:

### **OUTPUT SPECIFICATIONS**

Output voltage/current: See rating chart

120W 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 19/29/35/63/65\* volts. That will be return to normal state by AC

reset.

Short circuit & When an internal fault occurs, or an 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. Brown-out Set at 60Vac~70Vac

Environment

0~70°C (> 40°C de-rating) Working TEMP.

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

Hold-up time: regulation  $\leq$  3Sec

At 100Vac or 240Vac / full load, output voltage shall Inrush current:

remain regulation ≥10ms

100Vac, 240Vac / full load, Shall be less than the rating

of adapter critical component (including rectifiers, fuse

Operating altitude: surge and current limiting device)

Withstand voltage: 5000 meters above sea level

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:** 

EN61000-4-6

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

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 Impulse: ±1kV applied to L,N,meet criterion A FN61000-4-4 EN61000-4-5 ±1kV applied differential mode, ±2kV applied common

mode, meet criterion A 0.15 ~ 80 MHz,3Vrms,80% AM(1kHz),meet criterion A

FN61000-4-8 EN61000-4-11

50 Hz or 60Hz,1A/m,meet criterion A

Voltage Dips

>95% reduction for 0.5 period, meet criterion B 30% reduction for 25 period, meet criterion C

Voltage Interruptions

Power de-rating:

>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 the rating of adapter critical component, follow FSP

specification (adapter))

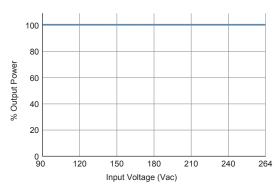
Notes:

\*Volts express by order of 120-AHxN3/ ABxN3/ AAxN3 / AFxN3/ AWxN3

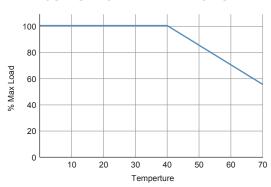


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### **INPUT VOLTAGE DERATING CURVE**



### **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
FSP120-AHAN3	12V	10A	C14	≥88%	≧89%	19 Volts
FSP120-AHBN3	12V	10A	C6			
FSP120-ABAN3	19V	6.32A	C14			29 Volts
FSP120-ABBN3	19V	6.32A	C6			
FSP120-AAAN3	24V	5A	C14			35 Volts
FSP120-AABN3	24V	5A	C6			
FSP120-AFAN3	48V	2.5A	C14			63 Volts
FSP120-AFBN3	48V	2.5A	C6			
FSP120-AWAN3	54V	2.22A	C14			65 Volts
FSP120-AWBN3	54V	2.22A	C6			

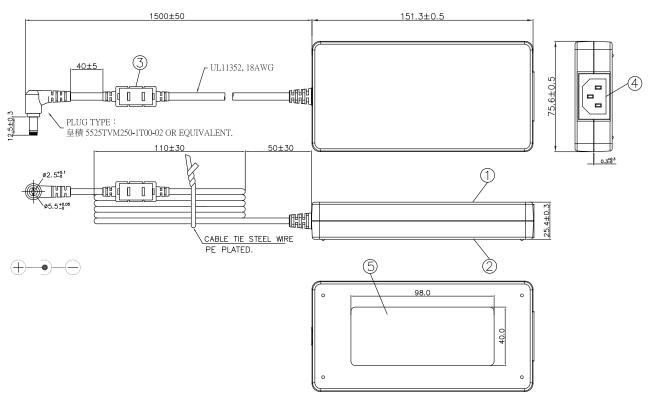


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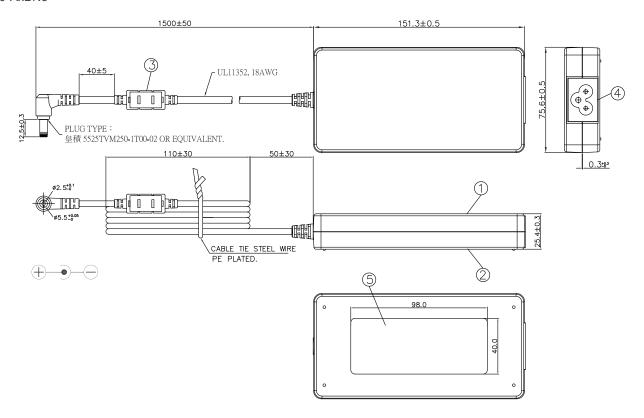
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#### **MECHANICAL & AC CONNECTOR SPECIFICATIONS**

FSP120-AxAN3



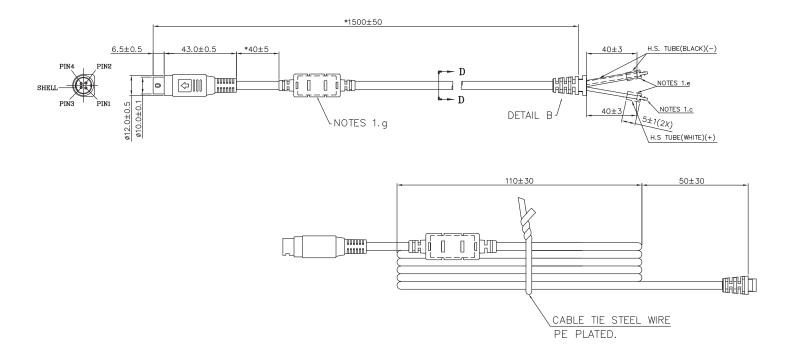
### FSP120-AxBN3





## TECHNICAL DATASHEET **120W Adapter** FSP120-AxxN3 Series

### FSP120-AFAN3 DC Connector Specifications



### **PIN CHART**

Pin No.	PIN 1	PIN 2	PIN 3	PIN 4	Shield
Polarity	VO	0(+)	GND(-)		
Color	Wi	nite	Black		

Note: DC connector might be varied, please check with your FSP representative.