



# FSP120-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

INPUT SPECIFICATIONS

# SAFETY STANDARD APPROVAL



115Vac, 230Vac / full load  $\geq 0.9$ 

61000-3-2 must be present.

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

remain regulation  $\geq$  10ms

specification (adapter))

See rating chart

regulation  $\leq$  3Sec

Provisions for adding harmonic reduction per EN

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

#### 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.

Power factor:

Hold-up time:

Inrush current:

Efficiency:

#### **INPUT SPECIFICATIONS**

Input voltage: Input frequency: Input current: No load power consumption Touch current:

90-264 VAC 47-63 Hz 100Vac, 240Vac / full load  $\leq$  1.2A 115Vac , 230Vac  $\leqq 0.5W$  264Vac / 50Hz  $\leqq 0.25mA$ 

# OUTPUT SPECIFICATIONS

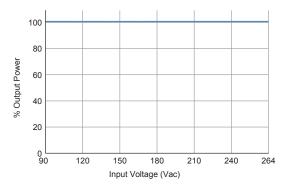
		initiasit current.	
<b>OUTPUT SPECIFICATIO</b>	ONS		100Vac, 240Vac / full load , Shall be less than the rating
Output voltage/current: Total output power: Protection:	See rating chart 120W	Operating altitude: Withstand voltage:	
Over voltage:	The adapter will enter into shut down that means no output while over voltage happened at output terminal that caused by internal fault, the output trip voltage shall not exceed 19/29/35/63/65* volts.	MTBF: EMC Performance:	
	That will be return to normal state by AC reset.	EN55032 FCC VCCI	Class B conducted, class B radiated Class B conducted, class B radiated Class B conducted, class B radiated
Short circuit & Over current:	When an internal fault occurs, or an external fault is applied to the power	EN61000-3-2 EN61000-3-3	Meet class D Meet regulation
	supply, such that an overload or short circuit is applied to the output, the	EN61000-4-2	Air discharge: ±15 KV,contact discharge: ±8KV, meet criterion A
	power supply shall shut down and enter auto-recovery mode.	EN61000-4-3 EN61000-4-4	80 ~1000 MHz,3V/m,80% AM(1kHz), meet criterion A Impulse: ±1kV applied to L,N,meet criterion A
Over temperature:	The power supply will enter into shut down while the abnormal thermal rise occurs. That will be return to normal	EN61000-4-5 EN61000-4-6	±1kV applied differential mode, ±2kV applied common mode,meet criterion A
Brown-out	state by AC reset. Set at 60Vac~70Vac	EN61000-4-8 EN61000-4-11	0.15 ~ 80 MHz,3Vrms,80% AM(1kHz),meet criterion A 50 Hz or 60Hz,1A/m,meet criterion A Voltage Dips :
Environment Working TEMP.	0~70°C (> 40°C de-rating )		>95% reduction for 0.5 period,meet criterion B 30% reduction for 25 period,meet criterion C
Storage TEMP. Working Humidity Storage Humidity	-20~+80°C 20~80% RH non-condensing 10~90% RH non-condensing	Power de-rating:	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 the rating of adapter critical component , follow FSP

Notes:

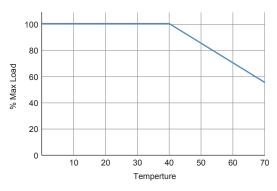
\*Volts express by order of 120-AHxN3/ ABxN3/ AAxN3 / AFxN3/ AWxN3



INPUT VOLTAGE DERATING CURVE







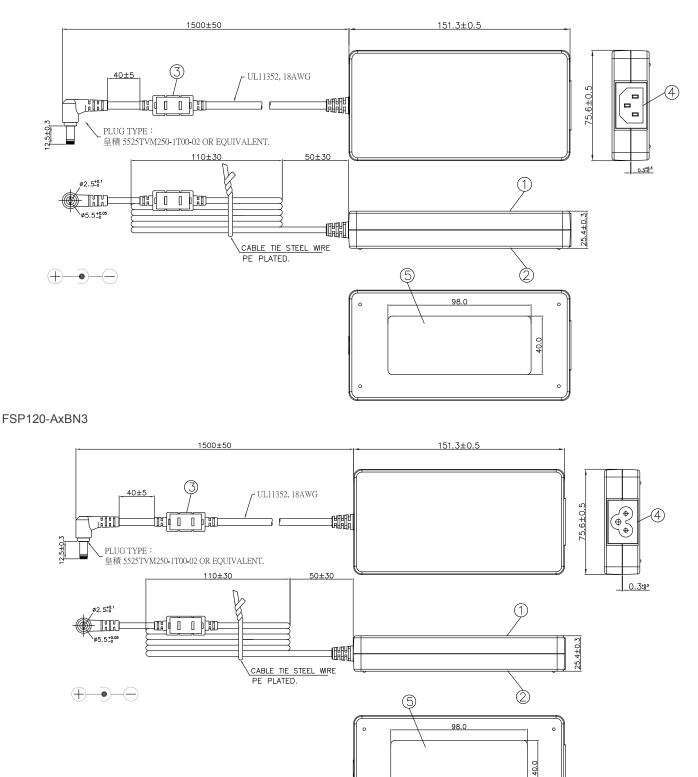
# **OUTPUT VOLTAGE/CURRENT RATING CHART**

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			



# **MECHANICAL & AC CONNECTOR SPECIFICATIONS**

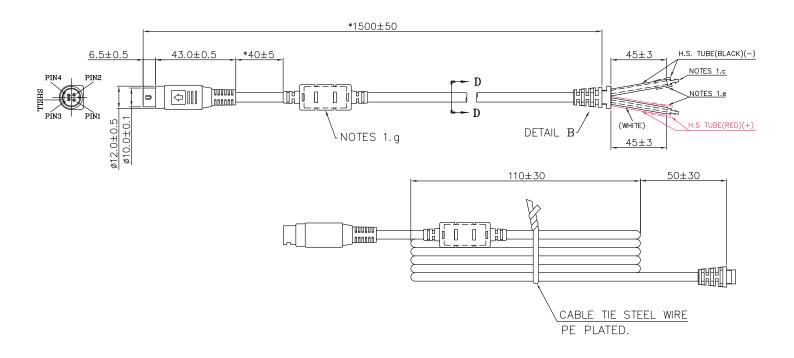
FSP120-AxAN3



o



FSP120-AHAN3 DC Connector Specifications



#### **PIN CHART**

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Pin No.	PIN 1	PIN 2	PIN 3	PIN 4	Shield	
Polarity	V0(+)		GND(-)			
Color	Red		Black			

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