

TECHNICAL DATASHEET

120W Adapter

FSP120-AxxN3 Series



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

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 \leq 1.2A 115Vac , 230Vac \leq 0.5W 264Vac / 50Hz \leq 0.25mA No load power consumption Touch current:

OUTPUT SPECIFICATIONS

See rating chart 120W Output voltage/current:

Total output power:

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

Protection:

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) 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,

standard SR332

EMC Performance:

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

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

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

criterion A

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 ±1kV applied differential mode, ±2kV applied common EN61000-4-5 mode, meet criterion A EN61000-4-6

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

EN61000-4-8 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))

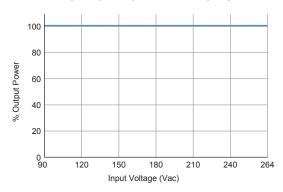
Notes:

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

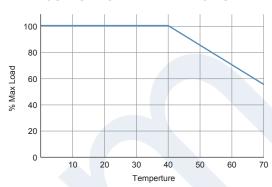


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INPUT VOLTAGE DERATING CURVE



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			

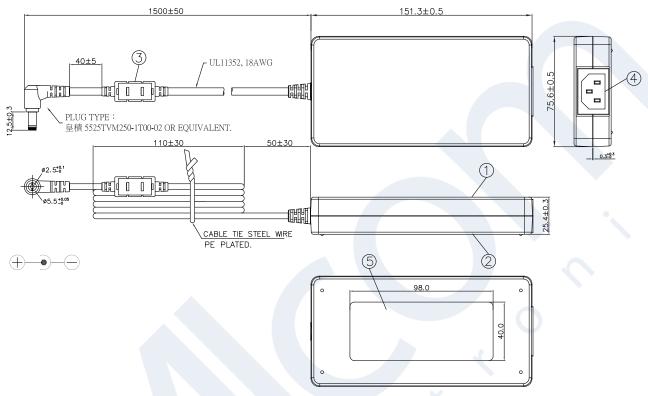


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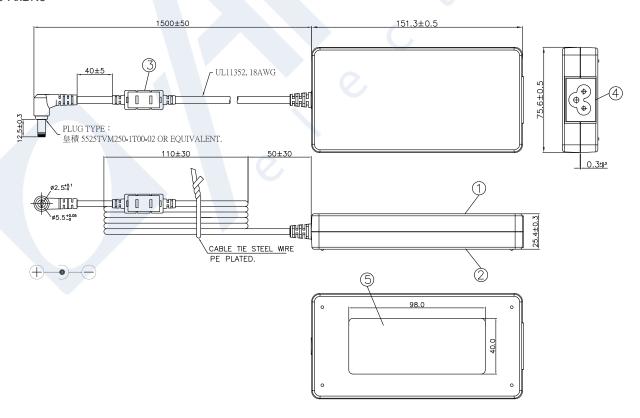
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MECHANICAL & AC CONNECTOR SPECIFICATIONS

FSP120-AxAN3



FSP120-AxBN3



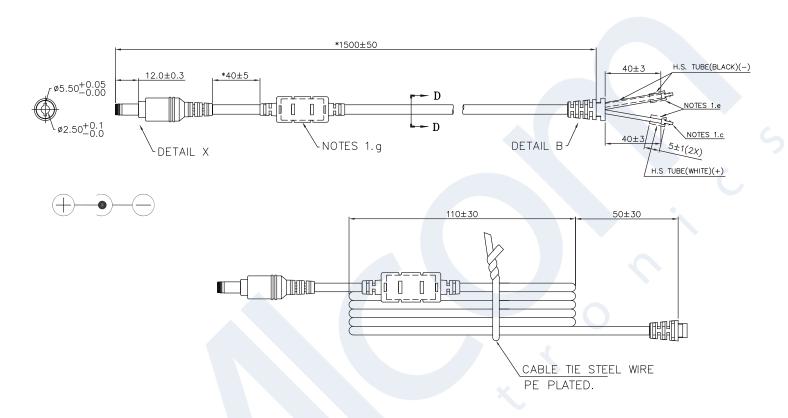


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FSP120-AAAN3 DC Connector Specifications



PIN CHART

Polarity	V0(+)	GND(-)
Color	White	Black

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



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