

TECHNICAL DATASHEET 90W Adapter FSP090-AxxN3 Series



FSP090-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 ≥ 0.9

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

remain regulation ≥10ms

See rating chart

regulation \leq 3Sec

Provisions for adding harmonic reduction per EN 61000-3-2 must be present.

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

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

DESCRIPTION

This product is a 90 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:

Efficiency:

Hold-up time:

Inrush current:

INPUT SPECIFICATIONS

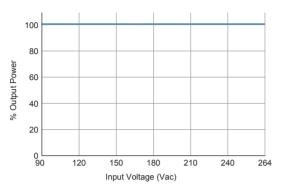
OUTPUT SPECIFICATIONS

OUTPUT SPECIFICATIC	JN5			
Output voltage/current: Total output power: Protection:	See rating chart 90W	Operating altitude: Withstand voltage:	5000 meters above sea level	
Over voltage:	The adapter will enter into shut down that means no output while over voltage happened at output terminal that caused	MTBF: EMC Performance:	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	
	by internal fault, the output trip voltage shall not exceed 29/35/60/65* 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	EN55032 FCC VCCI EN61000-3-2 EN61000-3-3 EN61000-4-2	Class B conducted, class B radiated Class B conducted, class B radiated	
Short circuit & Over current:			Class B conducted, class B radiated Meet class D Meet regulation Air discharge: ±15 KV,contact discharge: ±8KV, meet	
Over temperature:	circuit is applied to the output, the power supply shall shut down and enter auto-recovery mode. The power supply will enter into shut down while the abnormal thermal rise occurs. That will be return to normal	EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6 EN61000-4-8	criterion A 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 mode,meet criterion A	
Brown-out	state by AC reset. Set at 60Vac~70Vac	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. Storage TEMP. Working Humidity Storage Humidity	0~70°C (> 40°C de-rating) -20~+80°C 20~80% RH non-condensing 10~90% RH non-condensing	Power de-rating:	 >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 the rating of adapter critical component , follow FSP specification (adapter)) 	

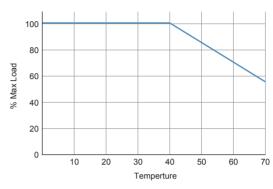


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INPUT VOLTAGE DERATING CURVE







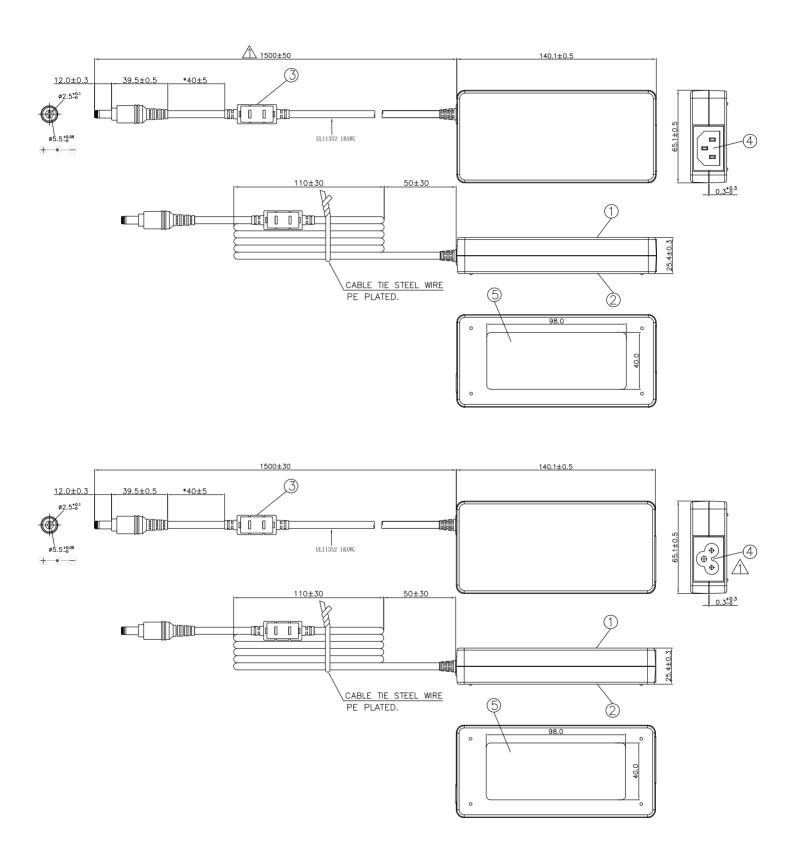
OUTPUT VOLTAGE/CURRENT RATING CHART

Madal	Output Voltage	Output Current	AC Inlet	Efficiency		Over Voltage
Model				DOE(Level VI)	CoC V5 (Tier 2)	Protection
FSP090-ABAN3	19V	4.74A	C14	≥88% ≥89%		29 Volts
FSP090-ABBN3	19V	4.74A	C6			
FSP090-AAAN3	24V	3.75A	C14			35 Volts
FSP090-AABN3	24V	3.75A	C6			
FSP090-AFAN3	48V	1.88A	C14		20.1/1	
FSP090-AFBN3	48V	1.88A	C6			60 Volts
FSP090-AWAN3	54V	1.67A	C14			65 Volts
FSP090-AWBN3	54V	1.67A	C6			



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MECHANICAL SPECIFICATIONS

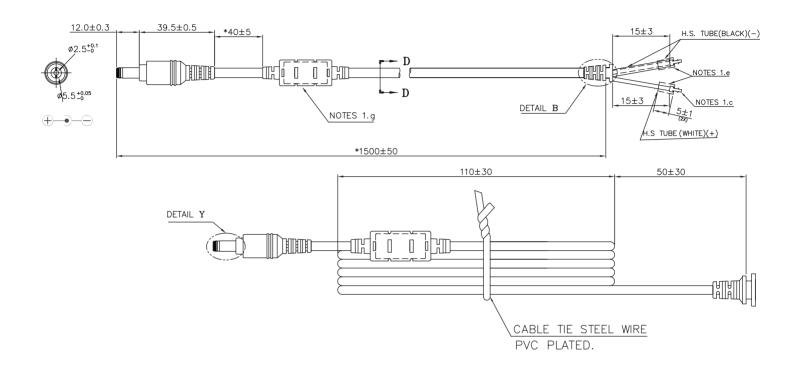




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CONNECTOR SPECIFICATIONS



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