

TECHNICAL DATASHEET 96W 12V Adapter FSP096-AHAN3



FSP096-AHAN3

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

be present.

1500 mm.16AWG)



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

DOE(Level VI): 115Vac / 25%,50%,75%,100% load ≧88%

(average active mode efficiency ,warm up 30 minutes later,DC Cable≤1500 mm,16AWG)

Erp(Tier 2): 230Vac / 25%,50%,75%,100% load ≧89%(average active mode efficiency ,warm up 30 minutes later,DC Cable≦

115Vac, 230Vac / full load ≥ 0.9

DESCRIPTION

This product is a 96 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:

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 1.8A 115Vac , 230Vac \leq 0.5W 264Vac / 50Hz \leq 0.25mA

OUTPUT SPECIFICATIONS

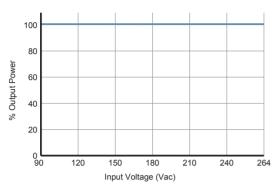
	OUTPUT SPECIFICATI	ONS	1500 mm,16AWG) CoC V5 (Tier 2): 230Vac / 25%,50%,75%,100% load ≧89%		
	Output voltage/current:	12V / 8A		(average active mode efficiency ,warm up 30 minutes later,DC	
	Total output power:	96W		Cable≦1500 mm,16AWG) ,10% load ≧79%	
	Protection:		Power turn-on time	At 100Vac / full load, output voltage shall remain regulation \leq 3Sec	
	Over voltage:	The adapter will enter into shut down	Hold-up time:	At 100Vac or 240Vac / full load, output voltage shall remain regulation ≧10ms	
		that means no output while over voltage	Inrush current:	100Vac, 240Vac / full load , Shall be less than the rating of	
		happened at output terminal that caused		adapter critical component (including rectifiers, fuse surge and	
		by internal fault, the output trip voltage shall not exceed 17 volts. That will be		current limiting device)	
		return to normal state by AC reset.	Operating altitude:	5000 meters above sea level	
	Short circuit &	When an internal fault occurs, or an	Withstand voltage:	Between AC input and secondary applied DC 4242V,test time 1 minute,cut off current shall be less than 10mA	
	Over current:	external fault is applied to the power	MTBF:	100Vac, 240Vac / full load , 300,000 hours at 25°C, standard	
		supply, such that an overload or short		SR332	
circuit is applied t power supply sha auto-recovery mo Over temperature: The power supply		circuit is applied to the output, the	EMC Performance:		
	power supply shall shut down and enter auto-recovery mode.	EN55032	Class B conducted, class B radiated		
			FCC VCCI	Class B conducted, class B radiated Class B conducted, class B radiated	
	The power supply will enter into shut	EN61000-3-2	Meet class D		
	down while the abnormal thermal rise	occurs. That will be return to normal	EN61000-3-3	Meet regulation	
		state by AC reset.	EN61000-4-2	Air discharge: ±15 KV,contact discharge: ±4KV, meet criterion A	
		Set at 60Vac~70Vac	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	
	Environment		EN61000-4-5	mode.meet criterion A	
	Working TEMP.	0~70°C (> 40°C de-rating)	EN61000-4-6	0.15 ~ 80 MHz,3Vrms,80% AM(1kHz),meet criterion A	
	Storage TEMP.	-20~+80°℃	EN61000-4-8	50 Hz or 60Hz,1A/m,meet criterion A	
		20~80% RH non-condensing	EN61000-4-11	Voltage Dips	
	Storage Humidity	10~90% RH non-condensing		>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	
			Power de-rating:	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))

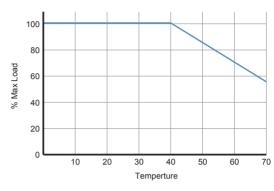


TECHNICAL DATASHEET 96W 12V Adapter FSP096-AHAN3

INPUT VOLTAGE DERATING CURVE







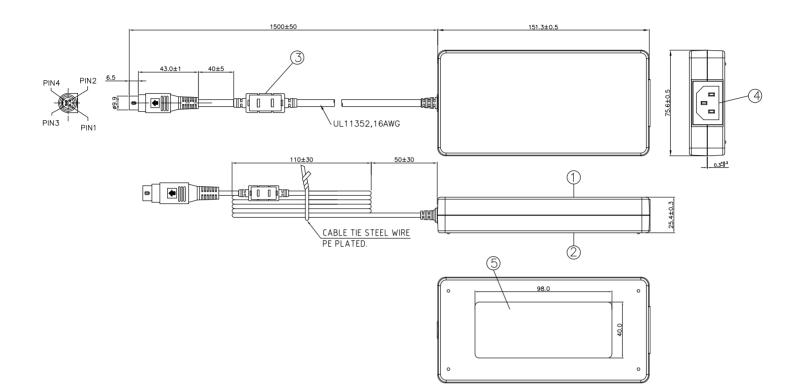
OUTPUT VOLTAGE/CURRENT RATING CHART

Model	Output Voltage	Output Current	AC Inlet	Efficiency	
				DOE(Level VI)	CoC V5 (Tier 2)
FSP096-AHAN3	12V	8A	C14	≧88%	≧89%
FSP096-AHBN3	12V	8A	C6	≧88%	≧89%



TECHNICAL DATASHEET 96W 12V Adapter FSP096-AHAN3

MECHANICAL SPECIFICATIONS



CONNECTOR SPECIFICATIONS

3

