

TECHNICAL DATASHEET **192W Adapter** FSP192-AHA/BN3



FSP192-AHA/BN3

FEATURES

- · Certified CB 62368-1 & CB 60950-1
- Meet Energy Efficiency DOE Level VI
- Meet Code of Conduct Version 5 Tier 2
- · High Reliability
- Slim Design
- · Over Current Protection
- · Over Temperature Protection
- · Over Voltage Protection
- With PFC Circuit

SAFETY STANDARD APPROVAL



component, follow FSP specification)

DESCRIPTION

This product is a 192W AC to DC adapter intended for IPC systems, embedded systems, printers, monitors, gaming laptops, POS systems, and AIO that have high wattage demands. This adapter operates from 90 to 264 Vac input voltage. The unit meets EN55032 Class B, EN55024 and FCC Class B emission limits, and is designed for ITE applications.

INPUT SPECIFICATIONS

GENERAL SPECIFICATIONS 115Vac, 230Vac / full load ≥ 0.9 90-264Vac Power factor: Input voltage: Provisions for adding harmonic reduction per EN Input frequency: 47-63Hz 61000-3-2 must be present. Input current: 100Vac, 240Vac / full load ≤ 3A DOE (Level VI) ≥ 88% CoC v5 (Tier 2) ≥ 89% Efficiency: No load power consumption: 115Vac, 230Vac ≤ 0.15W Touch current: 264Vac / 50Hz ≤ 0.25mA Power turn-on time: At 100Vac / full load, output voltage shall remain regulated ≤ 3sec At 100Vac or 240Vac / full load, output voltage shall **OUTPUT SPECIFICATIONS** Hold-up time:

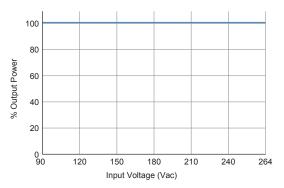
	40)//40.4		remain regulated ≥ 10ms
Output voltage/current:	12V/16A	Inrush current:	100Vac, 240Vac / full load, shall be less than the rating of
Total output power:	192W	infusit current.	adapter critical component (including rectifiers, fuse surge
Protection			and current limiting device)
Over voltage:	The adapter shuts down when over	Operating altitude:	5000 meters above sea level
ever voltage.	•		
	voltage happens at output terminal	Withstand voltage:	Between AC input and secondary applied DC 4242V, test time 1 minute, cut off current shall be less than 10mA
	caused by internal fault. The output trip	MTBF:	
	voltage shall not exceed 18.4V. It can	WIDE.	100Vac, 240Vac / full load, 300,000 hours at 25°C,
	return to normal state by AC reset.		standard SR332
Short circuit &	When an internal fault occurs, or an	EMC performance	Olean Discussion of a large Discussion of
Over current:		EN55032:	Class B conducted, class B radiated
Over current.	external fault is applied to the power	FCC:	Class B conducted, class B radiated
	supply, such that an overload or short	VCCI:	Class B conducted, class B radiated
	circuit is applied to the output, the power	EN61000-3-2:	Meet class D
	supply shall shut down and enter	EN61000-3-3:	Meet regulation
	auto-recovery mode.	EN61000-4-2:	Air discharge: ± 15 kV; contact discharge: ± 8 kV, meet
Over temperature:			criterion A
Over temperature:	The power supply shuts down when	EN61000-4-3:	80 ~1000 MHz, 3V/m, 80% AM (1 kHz), meet criterion A
	abnormal thermal rise occurs.	EN61000-4-4:	Impulse: ± 1kV applied to L, N, meet criterion A
	It can return to normal state by AC reset.	EN61000-4-5:	± 1kV applied differential mode, ± 2kV applied common
Brown-out:	Set at 60Vac~70Vac		mode, meet criterion A
Environment		EN61000-4-6:	0.15 ~ 80 MHz, 3Vrms, 80% AM (1 kHz), meet criterion A
	0.70° (> 10° c do roting)	EN61000-4-8:	50 Hz or 60Hz, 1A/m, meet criterion A
Working temperature:	0~70°C (> 40°C de-rating)	EN61000-4-11:	Voltage dips:
Storage temperature:	-20~+80°C		> 95% reduction for 0.5 cycles, meet criterion B
Working humidity:	20~80% RH non-condensing		30% reduction for 25 cycles, meet criterion C
Storage humidity:	10~90% RH non-condensing		Voltage interruptions:
0 ,	0		> 95% reduction for 250 cycles, 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

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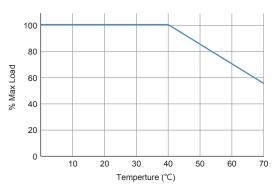


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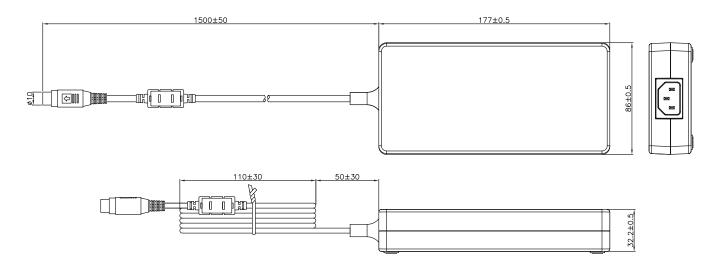
INPUT VOLTAGE DERATING CURVE





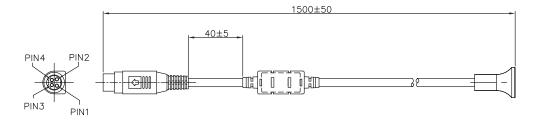


MECHANICAL SPECIFICATIONS



UNIT: mm

CONNECTOR SPECIFICATIONS



DIN PLUG	POLARITY	COLOR
P1 P2	V0(+)	WHITE
SHIELD		
P3	GND(-)	BLACK
P4		

UNIT: mm