TECHNICAL DATASHEET

180W Adapter

FSP180-AxxN3 Series

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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

c UL us LISTED I.T.E. POWER SUPPLY E190414 · TÜVRheinland ZERTIFIZIERT · GS · CE · FC Tested to Comply With FCC Standards FOR HOME OR OFFICE USE · CCC

DESCRIPTION

This product is an 180 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

Input voltage:	90-264 VAC
Input frequency:	47-63 Hz
Input current:	100Vac, 240Vac / full load ≦ 1.2A
No load power consumption	115Vac , 230Vac ≦ 0.5W
Touch current:	264Vac / 50Hz ≦ 0.25mA

OUTPUT SPECIFICATIONS

Output voltage/current:	See rating chare
Total output power:	180W
Protection:	
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 19/29/35/66* volts. That will be return to normal state by AC reset.
Short circuit & Over current:	When an internal fault occurs, or an 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.
Over temperature:	The power supply will enter into shut down while the abnormal thermal rise occurs. That will be return to normal state by AC reset.
Brown-out	Set at 60Vac~70Vac
Environment	
Working TEMP.	0~70℃ (> 40℃ de-rating)
Storage TEMP.	-20~+80℃
Working Humidity	20~80% RH non-condensing
Storage Humidity	10~90% RH non-condensing

INPUT SPECIFICATIONS

Power factor:	115Vac, 230Vac / full load ≧ 0.9 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 ≦ 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)
Withstand voltage:	5000 meters above sea level Between AC input and secondary applied DC 4242V,test
MTBF:	time 1 minute, cut off current shall be less than 10mA 100Vac, 240Vac / full load, 300,000 hours at 25℃, standard SR332
EMC Performance:	
EN55032	Class B conducted, class B radiated
FCC	Class B conducted, class B radiated
VCCI	Class B conducted, class B radiated
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	80 ~1000 MHz,3V/m,80% AM(1kHz), meet criterion A
EN61000-4-4	Impulse: ±1kV applied to L,N,meet criterion A
EN61000-4-5	±1kV applied differential mode, ±2kV applied common
EN61000-4-6	mode,meet criterion A
EN61000-4-8	0.15 ~ 80 MHz,3Vrms,80% AM(1kHz),meet criterion A
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℃ to 40℃, 100% load, 50℃, 85% load, 60℃, 70% load, 70℃, 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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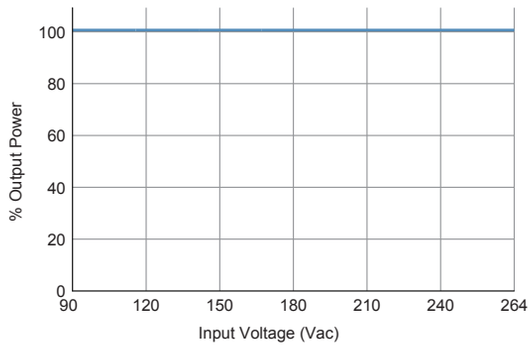
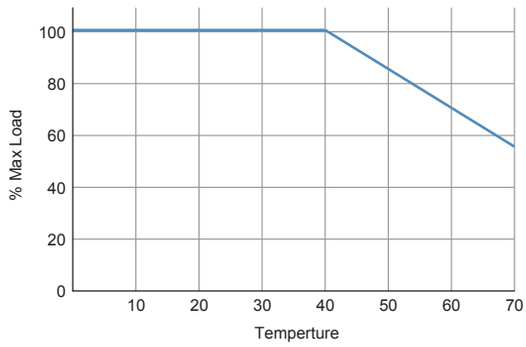
INPUT VOLTAGE DERATING CURVE



OUTPUT POWER DERATING CURVE



OUTPUT VOLTAGE/CURRENT RATING CHART

Model	Output Voltage	Output Current	AC Inlet	Efficiency		Over Voltage Protection
				DOE(Level VI)	CoC V5 (Tier 2)	
FSP180-AHAN3	12V	15A	C14	≧88%	≧89%	19 Volts
FSP180-AHBN3	12V	15A	C6			
FSP180-AJAN3	19.5V	9.23A	C14			29 Volts
FSP180-AJBN3	19.5V	9.23A	C6			
FSP180-AAAN3	24V	7.5A	C14			35 Volts
FSP180-AABN3	24V	7.5A	C6			
FSP180-AWAN3	54V	3.34A	C14			66 Volts
FSP180-AWBN3	54V	3.34A	C6			

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