



FSP150-AxxN3 Series

FEATURES

- Meet IEC 62368-1
- Meet Energy Star EPS2.0/ ErP Lot 7
- 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 150 watts AC to DC adapter intended for use in IPC systems, embedded systems, printers, monitors, POS systems, etc. that have a high wattage demands. This adapter operates at 90 to 264 VAC input voltage. The unit meets EN55022, EN55024 and FCC 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 $\leq$ 2A
No load power consumption	115Vac, 230Vac $\leq$ 0.15W
Touch current:	264Vac / 50Hz $\leq$ 0.25mA

OUTPUT SPECIFICATIONS

Output voltage/current:	See rating chart
Total output power:	150W
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 19/29/37/63/66* 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

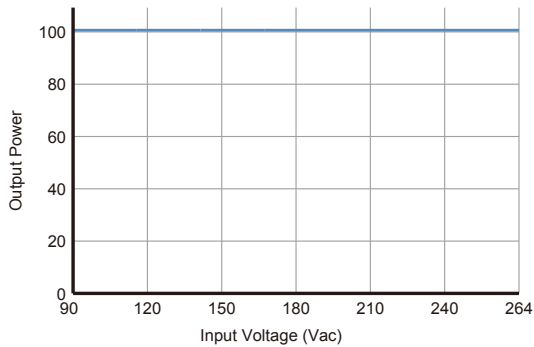
INPUT SPECIFICATIONS

Power factor:	115Vac, 230Vac / full load $\geq$ 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 regulation $\leq$ 3Sec
Hold-up time:	At 100Vac or 240Vac / full load, output voltage shall remain regulation $\geq$ 10ms
Inrush current:	100Vac, 240Vac / full load, Shall be less than the rating of adapter critical component (including rectifiers, fuse surge and current limiting device)
Operating altitude:	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
MTBF:	100Vac, 240Vac / full load, 300,000 hours at 25°C, 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: $\pm$ 15 KV, contact discharge: $\pm$ 8KV, meet criterion A
EN61000-4-3	80 ~ 1000 MHz, 3V/m, 80% AM(1kHz), meet criterion A
EN61000-4-4	Impulse: $\pm$ 1kV applied to L,N, meet criterion A
EN61000-4-5	$\pm$ 1kV applied differential mode, $\pm$ 2kV applied common mode, meet criterion A
EN61000-4-6	0.15 ~ 80 MHz, 3Vrms, 80% AM(1kHz), meet criterion A
EN61000-4-8	50 Hz or 60Hz, 1A/m, meet criterion A
EN61000-4-11	Voltage Dips : >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))

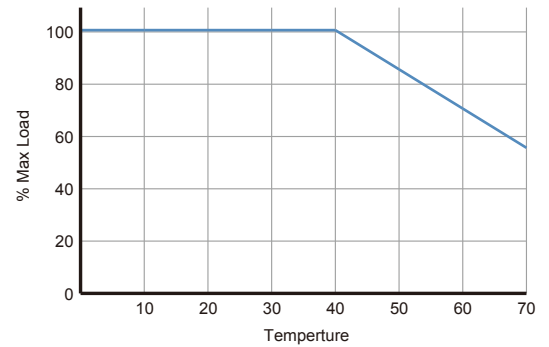
NOTES:

*Volts express by order of 150-AHxN3/ ABxN3/ AAxN3 / AFxN3/ AWxN3

INPUT VOLTAGE DERATING CURVE



OUTPUT POWER DERATING CURVE

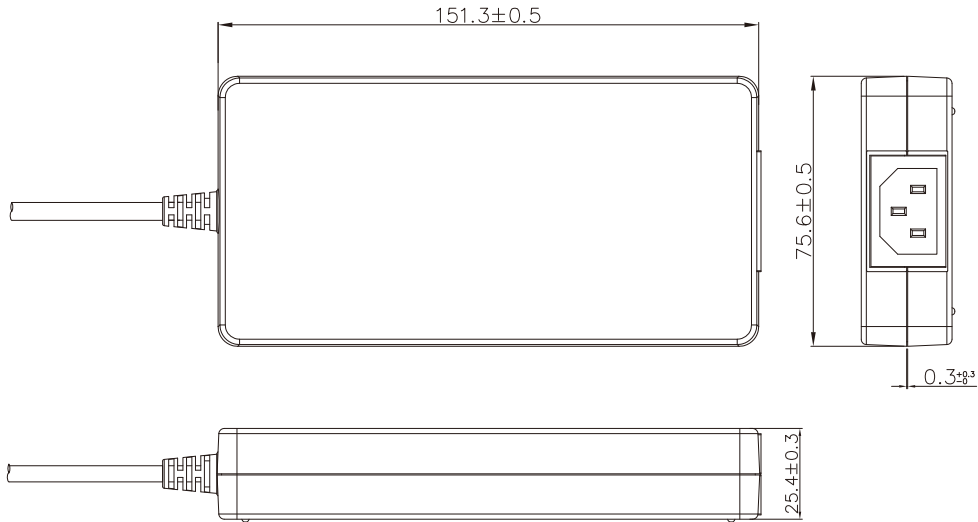


OUTPUT VOLTAGE/CURRENT RATING CHART

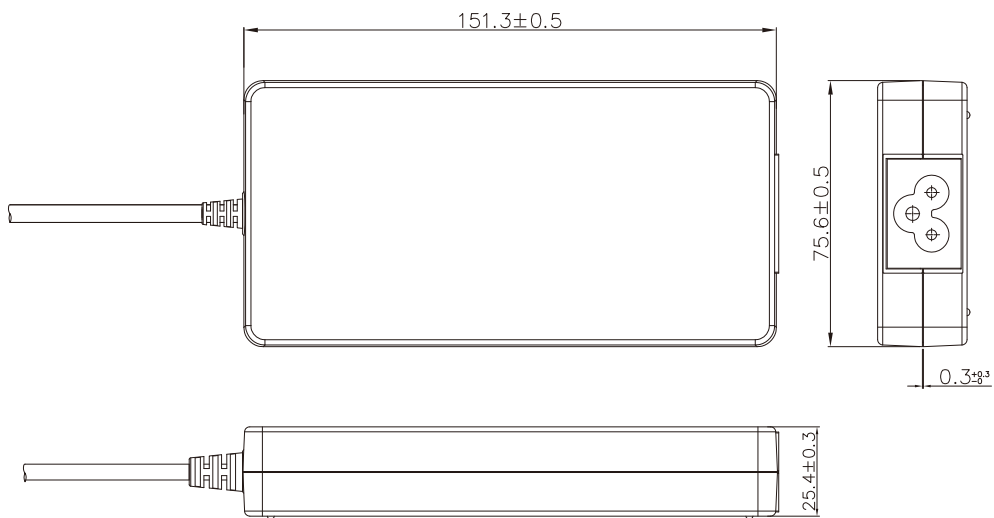
Model	Output Voltage	Output Current	AC Inlet	Efficiency		
				DOE(Level VI)	Erp(Tier 2)	CoC V5 (Tier 2)
FSP150-AHAN3 FSP150-AHBN3	12V	12.5A	C14 C6	≥88%	≥89%	≥89%
FSP150-ABAN3 FSP150-ABBN3	19V	7.89A	C14 C6	≥88%	≥89%	≥89%
FSP150-AAAN3 FSP150-AABN3	24V	6.25A	C14 C6	≥88%	≥89%	≥89%
FSP150-AFAN3 FSP150-AFBN3	48V	3.13A	C14 C6	≥88%	≥89%	≥89%
FSP150-AWAN3 FSP150-AWBN3	54V	2.78A	C14 C6	≥88%	≥89%	≥89%

MECHANICAL SPECIFICATIONS

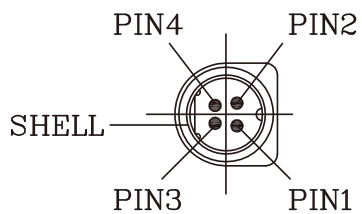
FSP150-AXAN3



FSP150-AXBN3



CONNECTOR SPECIFICATIONS



DIN PLUG	POLARITY	COLOR
P1 P2	VO(+)	RED
SHIELD P3 P4	GND(-)	BLACK