電氣規格書



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SPECIFICATION

AC Adapter FSP150-AAAN3

P.E	R/D	APPROVED	REV.
Zhiling Guo	Stephen Li	LJ Wei	02



History

REV.	<u>Description</u>	Date	Drawn	Mechanical	Electrical	Approved
<u>00</u>	SPEC ISSUE	Mar.17'17	Vivian	Zhiling Guo	Stephen Li	LJ Wei
<u>01</u>	Revise: 1.9 DOE(Level VI) 1.10 Erp(Tier 2) 4.8 Dielectric Strength	Sep.19'17	Vivian	Zhiling Guo	Stephen Li	LJ Wei
<u>02</u>	Revise: 4.5 EMI: Adapter comply with the following national standards	Dec.03'17	Vivian	Zhiling Guo	Stephen Li	LJ Wei

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Electrical Requirements

1.	Input	Characteristics:
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TEM	CONDITION	SPECIFICATION
1.1 Rated Input Voltage:		100Vac~240Vac
1.2 Input Voltage Range:		90Vac to 264Vac
1.3 Input Frequency Range:		47Hz to 63Hz (± 1Hz)
1.4 Input Current:	100Vac, 240Vac / 6.25A load	≤ 2A
1.5 Input Current Harmonic:		IEC61000-3-2
1.6 Efficiency: (Warm up 10minutes later)	100Vac / 6.25A load 240Vac / 6.25A load	≥ 89% ≥ 91%
1.7 Power Saving:	115Vac, 230Vac / 10.4mA load(0.25W)	≤ 0.5W
1.8 Inrush Current:	100Vac, 240Vac / 6.25A load	Shall be less than the rating of adapter critical component (including rectifiers, fuse surge and current limiting device)
1.9 DOE(Level VI):	(1)115Vac / 0A load (2)115Vac / 25%,50%,75%,100% load (Average Active Mode Efficiency ,Warm up 30 minutes later)	\leq 0.21W \geq 88% (DC Cable \leq 1800 mm,18AW
1.10 Erp(Tier 2):	(1)230Vac / 0A load (2)230Vac / 25%,50%,75%,100% load (Average Active Mode Efficiency ,Warm up 30 minutes later)	≤0.15W ≥89% (DC Cable≤1800 mm,18AW

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rication	24	CONDITION	2.1 Output Rated Voltage:
5.25A	0A	at constant voltage mode	2.2 Output Current:
: 5%	24	at the output end of DC cable	2.3 Output Voltage Setting:
nVp-p	≤3	100Vac, 240Vac / 0A~6.25A load	2.4 Output Voltage Ripple and Noise: (0.1uF Ceramic Cap. and 35V 47uF Aluminum Cap. Paralleled between the end of output cable)
	oltage ≤3	At 100Vac / 6.25A load, output voltage shall remain regulation	2.5 Turn-On Delay Time:
3		At 100Vac or 240Vac / 6.25A load, output voltage shall remain regulation	2.6 Hold Up Time:
3	at rise ≤5	At 100Vac / 6.25A load, DC output rise time from 5% to 95% of Vo	2.7 Rise Time:
10%		(1) Output load step is: [1] 0 % ~50 % [2] 50 %~100 % (2) S/R=0.5A/us (3) Frequency is 100Hz and 1KHz	2.8 Dynamic Load Change:
10%		(3) Frequency is 100Hz and 1KHz 100Vac, 240Vac / 0A and 6.25A load	2.9 Overshoot:

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Protection Characteristics:		
EM	CONDITION	SPECIFICATION
3.1 Short Circuit Protection:	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.	Shutdown and no damage
3.2 Over Voltage Protection:	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 37 volts. That will be return to normal state by AC reset.	Shutdown and no damage
3.3 Over Power Protection:	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.	Shutdown and no damage
3.4 Over Temperature Protection:	The power supply will enter into shut down while the abnormal thermal rise occurs. That will be return to normal state by AC reset.	No fire, no smoke
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EM	CONDITION	SPECIFICATION
4.1 Electric Fast Transients: Refer to IEC61000-4-4	Impulse: ±1kV applied to L,N	Normal operation shall be continued
4.2 Lightning Surge: Refer to IEC61000-4-5	±1kV applied differential mode	Normal operation shall be continued
	±2kV applied common mode	Normal operation shall be continued
4.3 Electron Static Discharge:	Air Discharge: ± 15 KV	Normal operation shall be
(Refer to IEC61000-4-2 Energy Storage Capacitor 150pF; Discharge Resistor 330Ω)	Contact Discharge: ± 8 KV	continued
4.4 Cooling:	Natural air cooling	
AS TIME Advanced 1 12 d C 11	1.Full Load	ECC DADT 15D CLASS D
4.5 EMI: Adapter comply with the following national standards:	1.Full Load	FCC PART 15B CLASS B
EMIC 1 . IF .	2. The power supply with internal filter	CISPR32 EN55032 CLASS B
EMI Conducted Emission	can meet.	VCCI LEVEL ∏
EMI Radiated Emission		
4.6 Safety conforming:		Regulated by customer
4.6.1 Energy-related Products 【ErP】 Department of Energy【DOE】		Comply with ErP standard Comply with DOE standard
4.7 Leakage Current:	264Vac / 50Hz	≤ 0.25mA
4.8 Dielectric Strength: (Hi-Pot)	Between AC input and secondary applied DC 4242V / test time 1 minute / cut off current shall be less than 10mA	
4.9 Temperature:	Operating Storage	0 to 40°C -20 to +80°C
4.10 Humidity:	Operating Storage	20% ~ 80% 10% ~ 90%



Mechanical Characteristics:

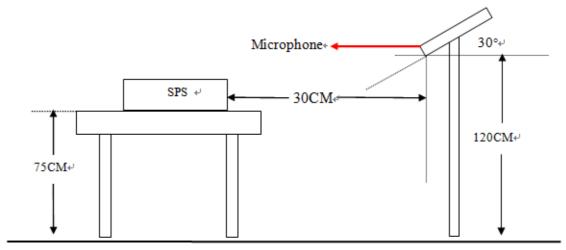
1	CONDITION	SPECIFICATION
5.1 Dimension (Length x Width x Height):		151.3 X 75.6 X 25.4 mm
5.2 Adapter weight:		485g(typical)
5.3 Input AC socket Type:		IEC 320-C14 Type
5.4 Vibration Test:	(1) Non-operating, 0.01g ² /Hz at 5Hz slopping to 0.02g ² /Hz at 20Hz, And maintain 0.02g ² /Hz from 20Hz ~ 500Hz (2) PSD=3.13grms, 15 minutes/axis (3) Vibration duration:15minutes (4) Vibration waveform:Random (5) Force Direction X,Y,Z	Normal operation shall be continued.
5.5 Acoustic Noise:	(1) Position the microphone 30 centimeters above the x-y center of the AC adapter (2) Input voltage:110Vac/60Hz 220Vac/50Hz	The EUT < 30dB

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Note: Acoustic Noise



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