

電氣規格書



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台灣桃園市桃園區建國東路22號 統一編號: 84239055 No. 22, Jianguo E. Rd., Taoyuan Dist., Taoyuan City 330, Taiwan (R.O.C) TEL:+886-3-375-9888 Website:www.FSP-group.com FAX:+886-3-375-6966 Email:sales@fsp-group.com.tw

SPECIFICATION

AC Adapter FSP096-AHAN3

P.E	R/D	APPROVED	REV.
Angela	Stephen Li	LJ Wei	00



Electrical Specification

History

90 SPEC ISSUE Jan. 08*18 Vivian Angela	al Electrical	
	Stephen Li	LJ Wei

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Electrical Specification

Electrical Requirements

. Input Characteristics:		
ГЕМ	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 / 8A load	≤ 1.8A
1.5 Input Current Harmonic:		IEC61000-3-2
1.6 Efficiency: (Warm up 10minutes later)	100Vac / 8A load 240Vac / 8A load	≥ 86% ≥ 88%
1.7 Power Saving:	115Vac, 230Vac / 20.8mA load(0.25W)	≤ 0.5W
1.8 Inrush Current:	100Vac, 240Vac / 8A load	Shall be less than the rating of adapter critical component (including rectifiers, fuse surg 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)	≤0.21W ≥88% (DC Cable≤1500 mm,16AWC
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≤1500 mm,16AWC
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Output Characteristics:	Measured at the end of DC cal	
EM	CONDITION	SPECIFICATION
2.1 Output Rated Voltage:		12V
2.2 Output Current:	at constant voltage mode	0A to 8A
2.3 Output Voltage Setting:	at the output end of DC cable	12V ± 5%
2.4 Output Voltage Ripple and Noise: (0.1uF Ceramic Cap. and 35V 47uF Aluminum Cap. Paralleled between the end of output cable)	100Vac, 240Vac / 0A~8A load	≤ 350mVp-p
2.5 Turn-On Delay Time:	At 100Vac / 8A load, output voltage shall remain regulation	≤ 3Sec
2.6 Hold Up Time:	At 100Vac or 240Vac / 8A load, output voltage shall remain regulation	≥ 10ms
2.7 Rise Time:	At 100Vac / 8A load, DC output rise time from 5% to 95% of Vo	≤ 50ms
2.8 Dynamic Load Change:	(1) Output load step is: [1] 0 % ~50 % [2] 50 %~100 % (2) S/R=0.5A/us (3) Frequency is 100Hz and 1KHz	12V ± 10%
2.9 Overshoot:	100Vac, 240Vac / 0A and 8A load	12V ± 10%
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3.	Protection Characteristics:

	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 17 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



Electrical Specification

4. Environmental Characteristics:

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: (Refer to IEC61000-4-2 Energy Storage	Air Discharge: ± 15 KV	Normal operation shall be continued
Capacitor 150pF; Discharge Resistor 330 Ω)	Contact Discharge: ± 8 KV	
4.4 Cooling:	Natural air cooling	
4.5 EMI: Adapter comply with the following national standards:	1. Full Load	FCC PART 15B CLASS B
EMI Conducted Emission	2. The power supply with internal filter can meet.	CISPR32 EN55032 CLASS I
EMI Radiated Emission		VCCI LEVEL ∏
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%

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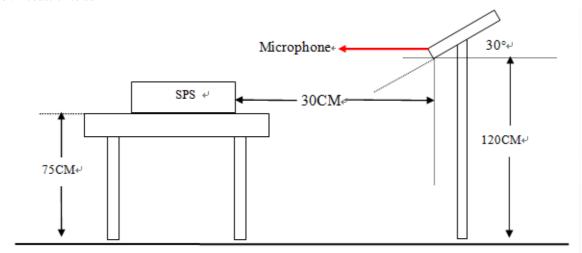
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1	CONDITION	SPECIFICATION
5.1 Dimension (Length x Width x Height):		151.3 X 75.6 X 25.4 mm
5.2 Adapter weight:		450g (typical)
5.3 Input AC socket Type:		IEC 320-C14 Type
5.4 Vibration Test:	(1) Non-operating, 0.01g2/Hz at 5Hz slopping to 0.02g2/Hz at 20Hz, And maintain 0.02g2/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



Note: Acoustic Noise



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