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SPECIFICATION



FSP309-2F01 / 9OC3090100

Released Date: 2010/7/30-14:10:50



SPECIFICATION

309W AC power supply FSP309-2F01

P.E	R/D	APPROVED	REV.
Nick Yu	Cerberus Shao	LJ Wei	000

表單編號:7000P-0105



History

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REV.	<u>Description</u>	Date	Drawn	Mechanical	Electrical	Approved
<u>000</u>	Spec Issue	Jan.07 '10	Vicky Chen	Nick Yu	Cerberus Shao	LJ Wei

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Electrical Requirements

Electrical Requirements									
Input Characteristics: Measured the output voltage at the									
EM	CONDITION	SPECIFICATION							
1.1 Rated Input Voltage		100Vac / 240Vac							
1.2 Input Voltage Range	Continuously	90Vac /264Vac							
1.3 Input Frequency Range	Continuously	47Hz to 63Hz							
1.4 Input Current	100Vac / 240Vac Max. load	≤4.0A							
1.5 Efficiency	100Vac / Max. load (warm up 10 minutes later) 240Vac / Max. load (warm up 10 minutes later)	≥ 82% ≥ 84%							
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2. Ou	tput Cha	racteris	tics:			※ M	leasured the outp	out voltage at the PCB			
ITEM				CONDITION		SP	SPECIFICATION				
2.1 O	utput Rated	Voltage:									
No.	Symbol	Min.	Max.	Ripple & Noise	Min.(V)	Typ. (V)	Max.(V)	Remark			
1	12V	0.1A	6.25A	200mV	11.4	12.0	12.6				
2	24V	0.1A	9.75A	350mV	22.8	24.0	25.2				
N 3 F	utput Volta; Noise:(0.1ul 55V/47uF A Paralleled be output cable	F Ceramic luminum (etween the	Cap. and Cap. end of	1. 100Vac / 240Vac 2. Minimum load and Maxim	um load						
2.2	Γurn-On De	elay Time:		Applied the AC input voltagoutput load is Max. load, ou remain regulation.			1Sec.				
2.3 L	ED Indicati	ion:		No definition							
2.4 H	old Up time	e:		Applied the AC input voltage 240Vac and output load is Ma voltage shall remain regulation	x. load, out		5mS				
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3. 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.	Shutdown and no damage
3.2 Over Voltage Protection	The output voltage will enter into shut down that means no output on output, while over voltage happened at output terminal that caused by internal fault. The output trip voltage will be less than 180% of its voltage rating. That will be return to normal state by AC reset.	Shutdown and no damage
3.3 Over Current 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 or latch mode.	Shutdown and no damage

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4. Environmental Characteristics:

EM	CONDITION	SPECIFICATION
4.1 Electric Fast Transients: Refer to EN61000-4-4	Impulse: ±1KV applied to AC line, pulse duration 50nS period 5 min.	Normal operation shall be continued
4.2 Lightning Surge: Refer to EN61000-4-5	±1KV applied between L, N, pulse rise time 1.2us and duty time 50uS ± 2KV applied common mode, pulse rise time 1.2uS and duty time 50uS	Normal operation shall be continued
4.3 Electron Static Discharge: (Refer to IEC61000-4-2 Energy Storage Capacitor 150pF; Discharge Resistor 330Ω)	Air Discharge: ±8KV. Contact Discharge: ±6KV. (Note: combine with customer's system.)	Normal operation shall be continued
4.4 Cooling	Natural air cooling	
4.5 EMI: AC power supply comply with the following national standards: EMI Conducted Emission EMI Radiated Emission	The AC power supply internal filter to meet, combine with customer's system.	FCC CLASS B CISPR 22 CLASS B
4.6 Safety conforming:	Regulated by customer	
4.7 Leakage Current	100Vac / 60Hz 240Vac / 50Hz	≤ 0.5mA
4.8 Harmonics	240Vac / 50Hz (Note: Combine with customer's system)	EN61000-3-2
4.9 Dielectric Strength: (Hi-Pot)	Between AC input and secondary applied AC 3KV / test time 1 minute / cut off current shall be less than 10mA AC 3KV / test time 3 sec. for mass production	
4.10 Temperature:	Operating Storage	0 to 40°C -20 to +85°C
4.11 Humidity:	Operating Storage	20% ~ 90% 5% ~ 95%

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5. M 6	echanical	Characte	ristics	:									
ITEM		CONDITION					SPECIFICATION						
5.1 Dimension (Length x Width x Height) 325x200x25 mm						L							
5.2 It	nput AC socl	ket											
	P801	[JWT A3	963W\	/2-5P-C or	eqı	uivalent
						Pin assignme	nt						
Pin No.		1		2 3				4			5		
Signal Name	Li	ne		N/C N/C		I/C	N/C -		Nature		·e		
5.3 C	output DC co	onnector											
	P201								JWT,	A2001V	VR2-10P or	r equ	iivalent
			Į.			Pin assignme	nt		I.				
Pin No.	1	2	3		4	5	6	7	'	8	9		10
Signal Name		GND						24V					
P202								JWT,	A2001	WR2-8P or	equ	ivalent	
			l			Pin assignme	nt						
Pin No.	1	2		3		4	5		6		7		8
Signal Name		GND						12V					

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