

SWITCHING POWER SUPPLY SPECIFICATION

CP-40023



1.Input Characteristics

- 1.1 Input Voltage Range ----- -38Vdc To -72Vdc,
- 1.2 Input Dc Current (Max) ----- 9.0A Max. Full Load.

2. Output Characteristics

2.1 Static Output Characteristics.

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	Output	Load	Range		Regu	lation	Ripple Max	Ripple & Noise			
	Voltage	Min.	Max.		Min. Max.		mV P-P	Max. mV P-P			
1.	+3.3 V	0.3 A	15.0 A		- 5 %	+ 5 %	50 mV	100 mV			
2.	+5.0 V	2.5 A	25.0 A		- 5 %	+ 5 %	50 mV	100 mV			
3.	+12.0 V	0.5 A	9.0 A		- 5 %	+ 5 %	100 mV	150 mV			
4.	-5.0 V	0.0 A	1.0 A		- 10 %	+ 10 %	150 mV	200 mV			
5.	-12.0 V	0.0 A	1.0 A		- 10 %	+ 10 %	150 mV	200 mV			
6.	SB +5.0 V	0.0 A	1.5 A		- 5 %	+ 5 %	100 mV	100 MV			

Note:1. Noise Test ---- Noise Bandwidth Is From Dc To 20MHz.

- 2. Ripple Frequencies Greater Than 1 MHz Shall Be Attenuated By the Measurement System.
- Add 0.1uF / 10uF Capacitor At Output Connector Terminals For Ripple & Noise Measurements.
- 4. Combined Total Power From +3.3V And +5V Rails Shall Not Execeed 125W.
- 5. The Total Output Power Shall Not Exceed 230W...
- 2.2 Dynamic Output Characteristics:
 - 2.2.1 Rise Time ---- 100 ms Max. At Nominal Line Full Load.
 - 2.2.2 Turn-on Delay Time ---- 600mS Max. At Nominal Line Full Load.
 - 2.2.3 Hold-up Time ---- 16 ms Min. For + 5V Output At Nominal Line Full Load.
 - 2.2.4 Transient Overshoot ----- 10% Max. Of Delay State After Load Change Of 25% Within The Range Of 50% To 100% Of Full Load.
 - 2.2.5 Temperature Coefficient ---- 0.03% Per °C Max.

3.Protections

- 3.1 Over Voltage Protection --- Standard On +3.3V Output Set At 4.10Vdc At +/-0.40Vdc. +5.0V Output Set At 6.25Vdc At +/-0.75Vdc. +12.0V Output Set At 14.6Vdc At +/-1.0Vdc.
- 3.2 Short Circuit Protection --- A Short Circuit Placed Between Dc Return And Output Shall Cause No Damage And The Power Supply Shall Shutdown.
- 3.3 Over Power Protection --- The Power Supply Can Use Electronic Circuit To Limit The Output. Power Against Excessing +150% Of Full Load. Or Protected against Excessive Power Delivery Due To Short Circuit Of Any Output Or Over Total Power.
- 3.4 No load Operation --- No Parts Damaged On Power Supply.

4. Dielectric Withstand Voltage

- 4.1 Primary to Secondary --- 1500Vac For 1 Minute. Or 1800Vac For 1 Sec.
- 4.2 Primary to Safety Ground --- 1500Vac For 1 Minute. Or 1800Vac For 1 Sec.
- 4.3 Insulation Resistance --- Primary To Safety Ground 500Vdc, 50M ohms Min.

4.Environment

4.1 Operation Temperature	· Air Temperature 0 °C To 50 °C.
4.2 Operation Relative Humidity	· 20% To 90%.
4.3 Storage Temperature	- Air Temperature -20 °C To 60 °C.
4.4 Storage Relative Humidity	- 5% To 95%.
	Operate Properly At Any Altitude Between 0 To 100,000 Feet. Storage 40,000 Feet.
4.6 Vibration	0.38mm. 5-55-5Hz, 1 Minutes Per Cycle;

5.Burn-In

5.1 Burn-In ------ At 45 °C, Max. Load, 4 Hours.

6.Mean Time Between Failure ------ 150 KHrs Minimum At Full Load For 25 °C Ambient Temperature.

30 Minutes For Each Axis (X,Y,Z).

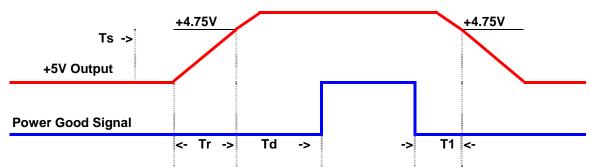
7. Product Safety: This Power Supply Is Designed Can Meet The Following Spec.

- 7.1 UL/CUL ----- UL 60950-1
- 7.2 TUV ----- EN 60950-1

8. Conducted EMI: Internal Filter Can Meet.

- 8.1 FCC Requirement --- Part15, SUB-Part J, Computing Devices "Class A "Limits.
- 8.2 VDE Requirement --- Class " A " (General Operating Permit) Requirements Of VFG 234/1991.
- 8.3 CISPR Requirement --- Class "A" Requirements Of CLSPR 22.

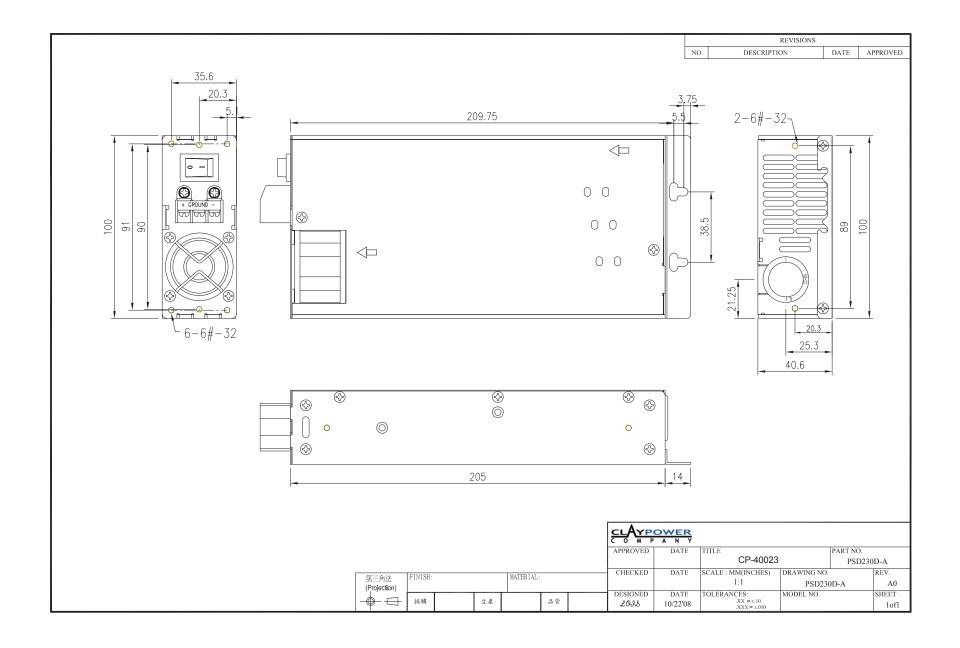
9. Power-Good Signal



Note: $Tr \le 100$ ms, $T1 \ge 1$ ms, Td = 100 - 500 ms.

10.Dimension

10.1 W x H x D ------ 100.0 x 40.6 x 205.2 (mm)



REF.ID	PIN NO.	SIGNAL	WIRE COLOR	GAUGE	CONNECTOR TYPE	LENGTH							
		+3.3V	BROWN	18	1112								
	1	+3.3V Sense	BROWN	22									
	2	+3.3V	BROWN	18									
		COM	BLACK	18			1						
	3	COM Sense	BLACK	22									
	4	+5V	RED	18						= ==			'
	5	COM	BLACK	18						==			D4
	6	+5V	RED	18						==			P1
	7	COM	BLACK	18									
	8	PWR OK	ORANGE	20			''	,	1	, ,		10 2)
	9	+5VSB	PURPLE	20									
P1	10	+12V	YELLOW	18	JMT/JP2416-20 or equivalent	540±20mm							
	11	+3.3V	BROWN	18	or equivalent					<u> </u>	/	1 6	
	12	-12V	BLUE	20				Ţ,					P2
	13	COM	BLACK	18				j	-	<i>i/</i>			. –
	14	PS-0N	GREEN	20			!] ' 🖟	Da
	15	COM	BLACK	18			į					1	P3
	16	COM	BLACK	18			ļ						
	17	COM	BLACK	18			į						
	18	-5V	WHITE	20			j ,,	- //	- /	/ = /	′/	. 1 .	
	19	+5V	RED	18									P4
	20	+5V	RED	18					_				1 7
P2	1	+12V	YELLOW	18			į					1 mcm	
/ /	2	COM	BLACK	18	JMT/JP1120-4	P2=530±20mm P3=150±20mm	į					1	P5
/ P4	3	COM	BLACK	18	or equivalent	P4=530±20mm							
Γ4	4	+5V	RED	18									
	1	+12V	YELLOW	22									
P5	2	COM	BLACK	22	JMT/JP11635-4	150±20mm							
1 0	3	COM	BLACK	22	or equivalent								
	4	+5V	RED	22					CLAYP	OWER A N Y			
									APPROVED	DATE	TITLE CP-40023		PART NO. PSD2
					第三角法 (Projection)	FINISH:	MATERIAL:		CHECKED	DATE	SCALE: MM(INCHES) 1:1	DRAWING NO. PSD23	
					- -		生產	品管	DESIGNED LOIS	DATE 10/22'08	TOLERANCES: .XX = ±.10 .XXX = ±.010	MODEL NO.	