

CP-20023



1.Input Characteristics

- 1.1 Input Voltage Range -----++24Vdc
- 1.2 Input Dc Current (Max) ----- 15.0A Max. Full Load.

2. Output Characteristics

2.1 Static Output Characteristics.

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		Output Load Ra		Range		Regulation		Ripple Max		Ripple & Noise	
		Voltage	Min.	Max.		Min.	Max.	mV F	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	0.75 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.
- 3. 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%.
4.5 Altitude	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; 30 Minutes For Each Axis (X,Y,Z).

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.

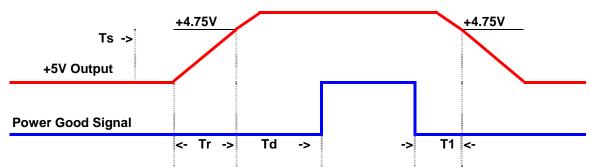
7. Product Safety: This Power Supply Is Designed Can Meet The Following Spec.

- 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)

