SWITCHING POWER SUPPLY SPECIFICATION CP-10030-V



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1. Input Characteristics:

1.1 Input Voltage Range	90~264Vac,Full Range With Active Power Factor Correct 90% Min
1.2 Input Frequency Range	-47Hz To 63Hz.
1.3 Input Ac Current (Max)	6.3A Max. @115Vac, 3.0A Max. @230Vac Full Load.
1.4 Inrush Current	At 132Vac / 264Vac, Full Load Condition, No Damage Occur. Input Fuse Shall Not Blow.
1.5 Efficiency	- 63% Min, At Nominal Line Input Full Load.
1.6 Input Leakage Current	eakage Current From Line to Ground

1.6 Input Leakage Current ------ Leakage Current From Line to Ground Will Be Less 3.5mA rms. Measurement Will Be Made At 240Vac/60Hz.

2. Output Characteristics:

2.1 Static Output Characteristics.

	Output	Load Range		Regulation		Ripple Max		Ripple & Noise	
	Voltage	Min.	Max.	Min.	Max.	mV P	-Р	Max. m	/ P-P
1.	+3.3 V	0.3 A	22.0 A	- 5 %	+ 5 %	50	mV	100	mV
2.	+5.0 V	2.5 A	30.0 A	- 5 %	+ 5 %	50	mV	100	mV
3.	+12.0 V	0.5 A	11.0 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.
- 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 160W.
- 5. The Total Output Power Shall Not Exceed 300W.
- 2.2 Dynamic Output Characteristics:
 - 2.2.1 Initial Delay Time ----- NONE.

2.2.2 Rise Time	50 mS Max. At M	Nominal Line Full Load.

- 2.2.3 Turn-on Delay Time ----- 600mS Max. At Nominal Line Full Load.
- 2.2.4 Hold-up Time ------ 16mS min. For + 5V Output At Nominal Line Full Load.
- 2.2.5 Transient Overshoot --- 10% Max. Of Delay State After Load Change Of 25% Within The Range Of 50% To 100% Of Full Load.

2.2.6 Temperature Coefficient ----- 0.03% Per °C Max.

3. Protections:

- 3.1 Over Voltage Protection --- Standard On +3.3V Output Set At 3.7Vdc 4.5Vdc. +5.0V Output Set At 5.7Vdc – 6.5Vdc. +12.0V Output Set At 13.5Vdc – 14.5Vdc.
- 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 +120% - 170% 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 2200Vdc For 3 Sec.
- 4.2 Primary to Safety Ground --- 1500Vac For 1 Minute. Or 2200Vdc For 3 Sec.
- 4.3 Insulation Resistance ------ Primary To Safety Ground 500Vdc, 100M ohms Min.
- 5. Conducted EMI: Internal Filter Can Meet.
 - 5.1 FCC Requirement --- Part15, SUB-Part J, Computing Devices " Class A " Limits.
 - 5.2 VDE Requirement --- Class " A " (General Operating Permit) Requirements Of VFG 234/1991.
 - 5.3 CISPR Requirement --- Class " A " Requirements Of CLSPR 22.

5.4 Harmonic Requirement ---IEC10000-3-2 & IEC10000-3-3 Class "D".

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

6.1 UL/CUL ----- UL1950

6.2 TUV ----- EN 60950

7. Environment:

7.1 Operation Temperature ----- Air Temperature 0 °C To 50 °C.

7.2 Operation Relative Humidity ------ 20% To 90%.

7.3 Storage Temperature ----- Air Temperature -20 °C To 60 °C.

7.4 Storage Relative Humidity ----- 5% To 95%.

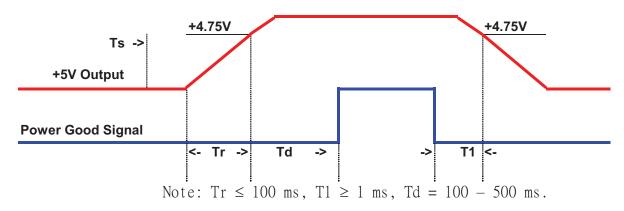
- 7.5 Altitude ------ Operate Properly At Any Altitude Between 0 To 100,000 Feet. Storage 40,000 Feet.
- 7.6 Vibration ------ 0.38mm. 5-55-5Hz, 1 Minutes Per Cycle; 30 Minutes For Each Axis (X,Y,Z).

8. Burn-In

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

9. Mean Time Between Failure ----- 100 KHrs Minimum At 75% Load For 25 °C Ambient Temperature.

10. Power-Good Signal:



11. Dimension

11.1 W x H x D ------ 100.0 x 46 x 205.2(mm)

