

SWITCHING POWER SUPPLY SPECIFICATION

CP-54010



1.Input Characteristics

1.1	Input Voltage Rang	ge	90Vac T	Го	264Vac,Universa	ıl Inp	out

- 1.2 Input Frequency Range ----- 47Hz To 63Hz.
- 1.3 Input Ac Current (Max) ------ 4A Max. @115Vac, 2A 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 ------ 65% Min, At Typical Line Input Full Load.
- 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		Surge	Regulation		Ripple Max	Ripple & Noise	
	Voltage	Min.	Max.	10 Sec.	Min.	Max.	mV P-P	Max. mV P-P	
1.	+3.3 V	0.1 A	12.0 A		- 5 %	+ 5 %	50 mV	50 mV	
2.	+5.0 V	2 A	14.0 A		- 5 %	+ 5 %	50 mV	100 mV	
3.	+12.0 V	0.3 A	7.0A		- 5 %	+ 5 %	100 mV	150 mV	
4.	-12.0 V	0.0 A	1.0 A		- 10 %	+ 10 %	150 mV	200 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. Total Power Can Not Execeed 100W. (FAN 30CFM)
- 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 ---- 10 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 3.75Vdc 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 +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.

5.Conducted EMI Internal Filter Can Meet.

- 5.1 FCC Requirement --- Part15, SUB-Part J, Computing Devices "Class B "Limits.
- 5.2 CISPR Requirement --- Class "B" Requirements Of CISPR 22.
- 5.3 VCCI Class " 2 ".
- **6.Product Safety** This Power Supply Is Designed Can Meet The Following Spec.
 - 6.1 UL/CUL ----- UL 60950-1
 - 6.2 TUV ------ EN 60950-1

7.Environment

7.1 Operation Temperature ------ Air Temperature 0 °C To 40 °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 40 °C, Max. Load, 4 Hours.
- **9.Mean Time Between Failure** ------ 50 KHrs Minimum At Full Load For 25 °C Ambient Temperature.

11.Dimension

11.1 W x D x H ------130x78x40 (mm)

