SWITCHING POWER SUPPLY SPECIFICATION

CP-64008-10

CLAYPOWER COMPANY

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1.Input Characteristics

1.1 Input Voltage Range ---------- 90Vac To 264Vac,Universal Input.

1.2 Input Frequency Range ---------- 47Hz To 63Hz.

1.3 Input Ac Current (Max) ---------- 3A Max. @115Vac, 1.5A 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 ---------- 80% 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 Voltage	Load Range Min.	Load Range Max.	Surge 10 Sec.	Regulation Min.	Regulation Max.	Ripple Max mV P-P	Ripple & Noise Max. mV P-P
1. +24.0 V	0.1 A	3.5 A		- 5 %	+ 5 %	240 mV	300 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 Exceeed 80W.

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. **+24.0V output set at 25.5Vdc – 26.5Vdc**

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 ----------132x78x38 (mm)