SPECIFICATION

Model: P6300P 2F

300W
2U Industrial Grade Power Supply
Auto Ranging with PFC

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1. Input Characteristics:

1.1 Input Voltage Range -------- 90Vac To 264Vac,
With Active Power Factor 90% Min.

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

1.3 Input Ac Current (Max) ------- 6.3A Max. @115Vac, 4A Max. @230Vac
Full Load.

1.4 Inrush Current ------ At 132Vac / 264Vac, Full Load Condition, No Damage Occured.
Input Fuse Shall Not Blow.

1.5 Efficiency ---------- 65% Min, At Nominal 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.		Regulation Min.	Regulation Max.	Ripple Max mV P-P	Ripple & Noise Max. mV 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 Exeeced 150W.

5. The Total Output Power Shall Not Exceed 300W.

2.2 Dynamic Output Characteristics:

2.3.1 Initial Delay Time ----- NONE.

2.3.2 Rise Time ---------- 50 mS Max. At Nominal Line Full Load.

2.3.3 Turn-on Delay Time ----- 600mS Max. At Nominal Line Full Load.

2.3.4 Hold-up Time ---------- 16mS min. For + 5V Output At Nominal Line Full Load.

2.3.5 Transient Overshoot --- 10% Max. Of Delay State After Load Change Of 25% Within The Range Of 50% To 100% Of Full Load.

2.3.6 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.

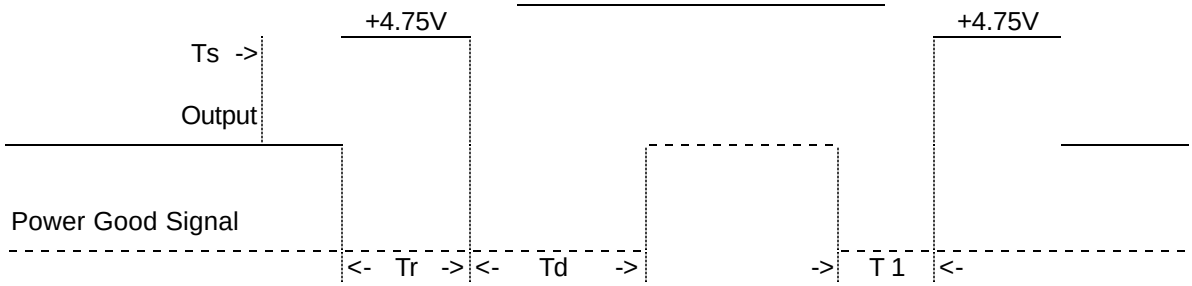
7.6 Vibration ---------- 0.38mm. 5-55-5Hz, 1 Minutes Per Cycle; 30 Minutes For Each Axis (X,Y,Z).

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:



Note: Tr ≤ 100 ms, T1 ≥ 1 ms, Td = 100 - 500 ms.

11. Dimension

11.1 W x H x D ---------- 100.0 x 70.0 x 205.0 (mm)