SPECIFICATION

300W ATX
1U Narrow Body
Industrial Grade Power Supply
(With Active PFC)

Model: P6300P 1F

Specification subject to change without prior notice.

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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 Occurred. 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 exceed 150W.
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 nominal line full load.

2.2.3 Turn-on Delay Time ---------- 600 ms Max. at nominal line full load.

2.2.4 Hold-up Time ---------- 16 ms 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 exceeding +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.

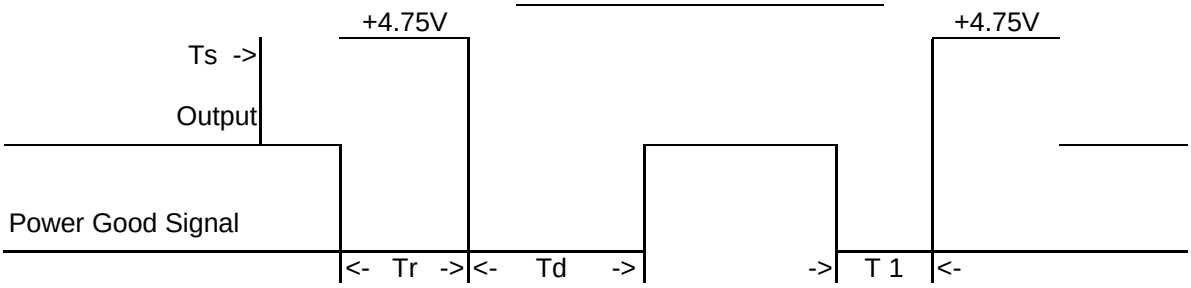
7.6 Vibration ----------0.38mm. 5-55-5Hz, 1 minutes per cycle; 30 minutes for each axis (X,Y,Z).

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.

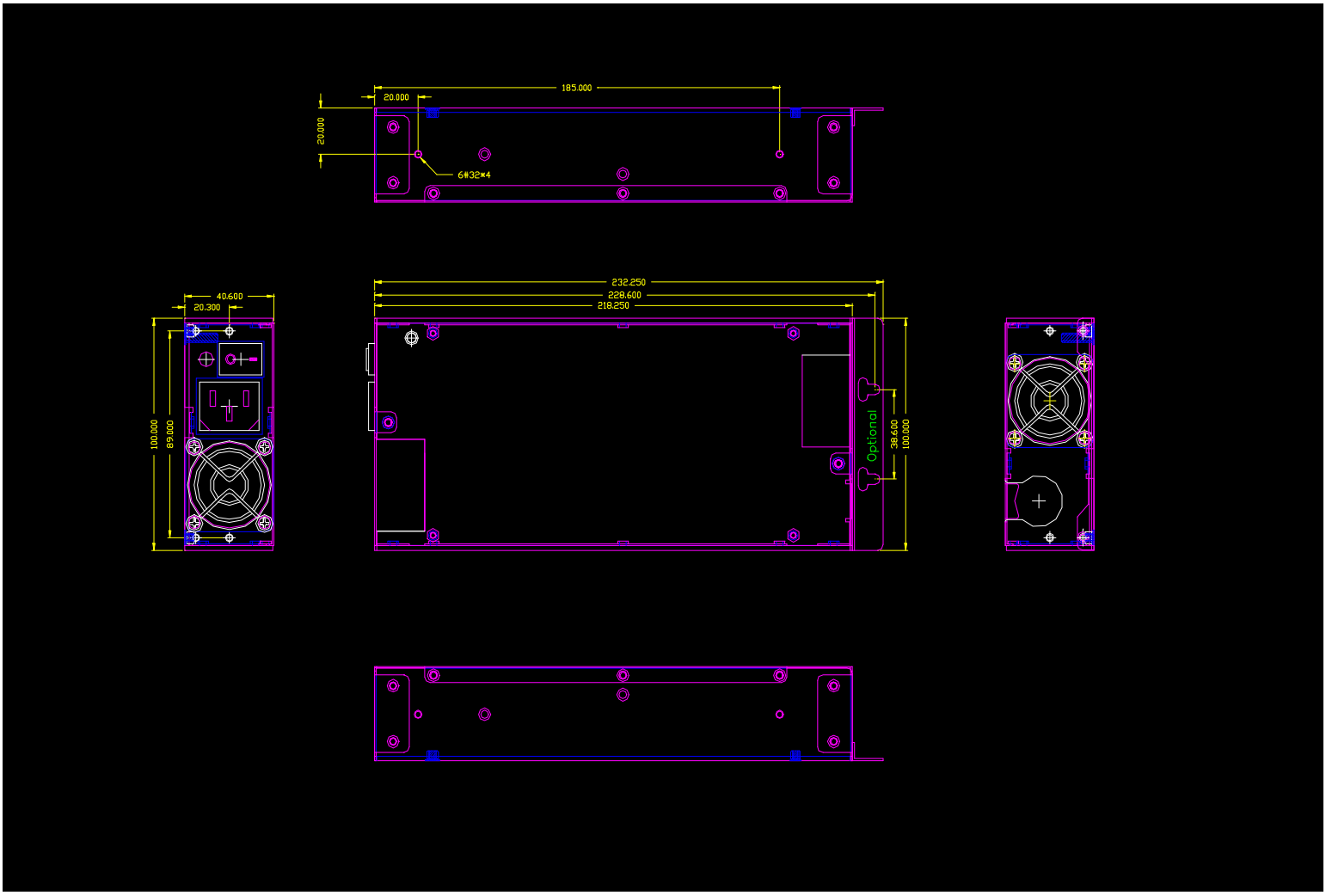
10. Power-Good Signal:



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

11. Dimensions

11.1 W x H x D ---------- 100.0 x 40.6 x 218.5 (mm)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20.000
6#32*4
40.600
20.300
100.000
89.000
232.250
228.600
218.250
Optional
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100.000