SPECIFICATION

230W ATX
1U Narrow Body
Industrial Grade Power Supply

Model: P6230P-48 1U

Specification subject to change without prior notice
unless we have a written agreement.

3261 Keller St.
Santa Clara, CA 95054
Tel: 408-980-9813
Fax: 408-980-8626
E-mail: info@topmmicro.com

Introductions

P6230OP-48 1U is a 48V DC input ATX output 1U form factor closed frame switching power supply.

1. Input Characteristics

1.1 Input voltage range ---------- -38Vdc to –72Vdc,

1.2 Input DC current (Max) ---------- 9.0A Max. Full load.

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	15.0 A		- 5 %	+ 5 %	50 mV	100 mV
2. +5.0 V	2.5 A	25.0 A		- 5 %	+ 5 %	50 mV	100 mV
3. +12.0 V	0.5 A	9.0 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 125w.

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 ---------- 16 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 4.10Vdc at +/-0.40Vdc.
+5.0V output set at 6.25Vdc at +/-0.75Vdc.
+12.0V output set at 14.6Vdc at +/-1.0Vdc.

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 +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. Environment

5.1 Operation Temperature ---------- Air temperature 0 °C to 50 °C.

5.2 Operation Relative Humidity -------- 20% to 90%.

5.3 Storage Temperature ---------- Air temperature -20 °C to 60 °C.

5.4 Storage Relative Humidity ---------- 5% to 95%.

5.5 Altitude ---------- Operate properly at any altitude between 0 to 100,000 feet. storage 40,000 feet.

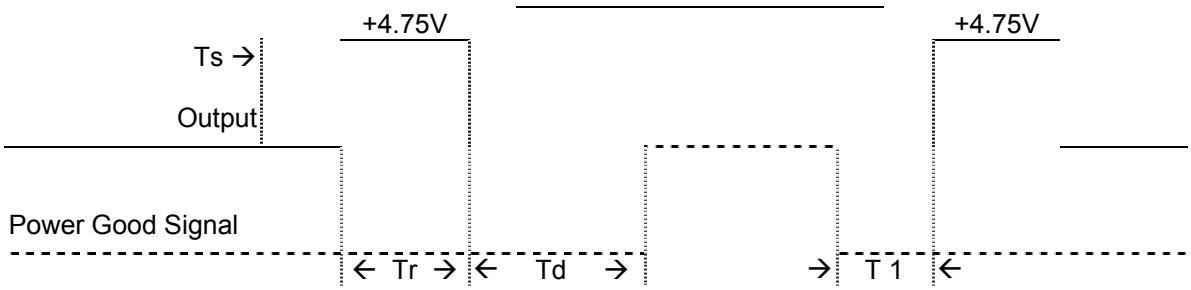
5.6 Vibration ---------- 0.38mm. 5-55-5Hz, 1 minutes per cycle; 30 minutes for each axis (X, Y, Z).

6. Burn-In

6.1 Burn-In ---------- At 45 °C, Max. load, 4 hours.

7. Mean Time Between Failure ---100 KHrs minimum at full load for 25°C ambient temperature.

8. Power-Good Signal



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

9.Dimension

9.1 W x H x D ---------- 100 W x 40.6 H x 205 D (mm)