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# MODEL : PS2001 / TC-2U46 ( 460W)

## 1. Specification

1.1 AC Input Voltage: 95 to 130 or 185 to 260 Auto selectable 50 to 60 Hz.

1.2 DC Output: 460W maximum

| | Output-1 | Output-2 | Output-3 | Output-4 | Output-5 |
|---|---|---|---|---|---|
| Voltage: | +5V DC | +12V DC | -5V DC | -12V DC | +3.3V DC |
| Maximum Load: | 40A | 24A | 0.5A | 0.8A | 20A |
| Minimum Load: | 3A | 2A | 0.1A | 0.1A | 0.3A |
| Ripple: | 50mv | 120mv | 50mv | 120mv | 50mv |
| Ripple/Noise: | 100mv | 150mv | 100mv | 240mv | 50mv |
| Line Regulation: | ±1% | ±1% | ±1% | ±1% | ±1% |
| Output Regulation: | ±5% | ±5% | ±10% | ±10% | ±5% |
| Cross Regulation: | ±5% | ±5% | ±10% | ±10% | ±5% |

**Note:**

1. Noise Test – Noise bandwidth is from DC to 20 MHz.
2. Ripple frequencies greater than 1MHz shall be attenuated by the measurement System.
3. Add 0.1uF/10uF capacitor at output connector terminals for ripple and noise measurements.
4. The combined total power from 5V & 3.3V shall not exceed 200W.
   .The combined total power from +5V and +12V & +3.3V shall not exceed 438W.
5. +5V SB DC Output 2A.

1.3 **PS-ON**

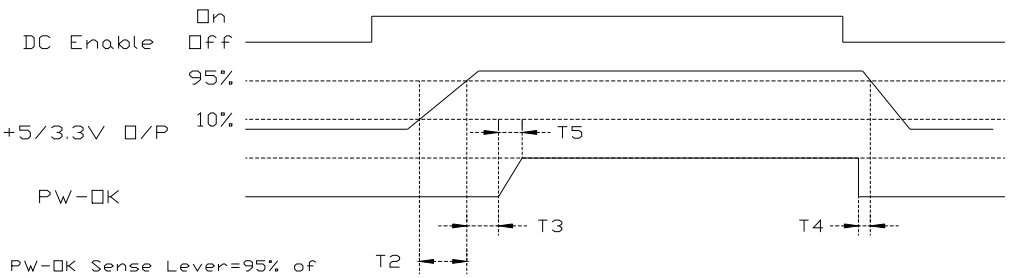
**Remote On/Off Control:**

When PS-ON is pulled to TTL Low, the DC output is to be enabled.

When PS-OFF is pulled to TTL high, the DC output is to be disabled.

1.4 **PW-OK**

PW-OK is power good signal and should be asserted high by the power supply to indicate that +5VDC and +3.3VDC output are above the under voltage thresholds of the power supply TTL. compatible signal out with 100ms to 500ms.




Timing of PS-ON, PW-OK, and Germane Voltage Rails

Although there is no requirement to meet specific timing parameters,
The following signal timings are recommended:
2ms≦T2≦200ms
100ms≦T3≦500ms
T4＞1ms
T5≦10ms

1.5 Efficiency: ≧ 68% at full load.(Normal Line)

1.6 Hold-Up Time: 16ms at maximum load & normal input voltage.

**2.PROTECTIONS**

2.1 OVER-VOLTAGE PROTECTION

Standard on +5.0V output, set at 6.25VDC ± 075VDC.

2.2 SHORT CIRCUIT PROTECTION

A short circuit placed between the DC Return and the output shall cause
No damage and the power supply shall shutdown.

2.3 OVER POWER PROTECTION

The power supply shall shut down when output power exceeds 130% to 160%
of full load and require a power on cycle be performed by the operate

2.4 NO LOAD OPERATION

No parts shall be damaged on the power supply.

**3. ENVIRONMENT TEMPERATURE**

3.1 Operation Temperature: 0℃ to 50℃

3.2 Cooling: By forced air

3.3 Storage Temperature:-20℃ to 70℃

3.4 Humidity: 5 to 90% non-condensing.

**4. RELIABILITY**

4.1 MTBF OF POWER SUPPLY ELECTRONIS

100,000 hours at full load and 25℃ ambient temperature

4.2 LIFE EXPECTANCY OF FAN

40,000 hours at 40℃

**5. AGENCY APPROVALS**

UL 1950 QQGQ2

UL 1950 QQGQ8

TUV ( EN60950, IEC950 mod )

**6. EMI**

FCC part 15, Subpart B, Class B

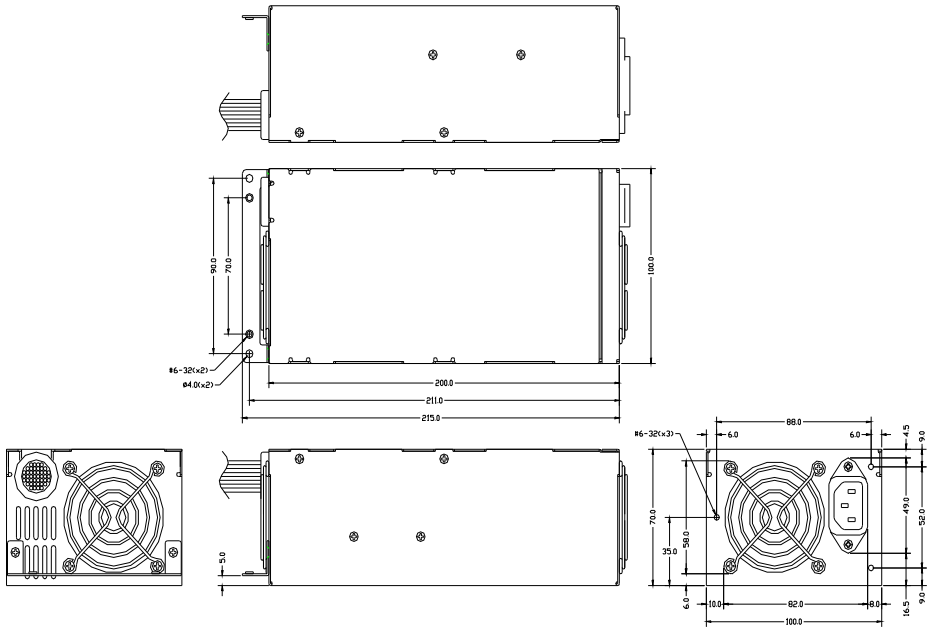
EN55022 CISPR22 Class B, CE Make

EN61000-3-3;1995

EN61000-4-2, -3, -4, -5, -6, -8, -11

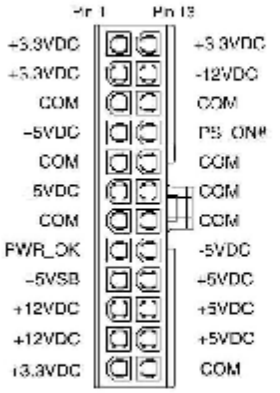
**7. DIMENSION**

L 200 x W 100 x H 70 mm

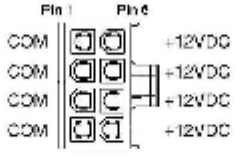


## 8. PINOUTS OF CONNECTORS

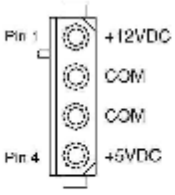
7 x 5.25" , 1 x 3.25", 1 x ATX-24Pin ( for motherboard), 1 x AUX Power Connector



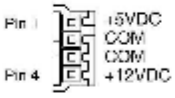

Main Power Connector




+12V 8P Power Connector




Peripheral Power Connector




Floppy Drive Power Connector

+12V = yellow
+5V = red
+3.3V = purple

+5VSB = brown
PS ON# = gary
PWR OK = orange

-5V = white
-12V = blue
COM = black