

SPECIFICATION

1U 200W PFC (Short Body)
Industrial Grade
Switching Power Supply

P/N: P5200C 1F



Specification subject to change without prior notice.



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1.0 INPUT:

1.1 VOLTAGE

MINIMUM	NOMINAL	MAXIMUM	UNITS
100	115~230	240	Vrms

1.2 FREQUENCY

47Hz ~ 63Hz

1.3 CURRENT

115Vac/3.0A max.

1.4 INRUSH CURRENT

No damage at 25⁰C cold start.

1.5 POWER EFFICIENCY

68% (min.) at full load, nominal line input.

1.6 LEAKAGE CURRENT

3.5mA max.

1.7 POWER FACTOR CORRECT

PF>0.9

2.0 OUTPUT:

Voltage	+5V	+12V	+3.3V	-12V	+5Vsb
*① Max load	13.0A	15.0A	17.0A	0.3A	2.0A
Min load	0.3A	1.0A	0.5A	0.0A	0.0A
Peak load	--	17.0A	--	--	2.5A
*③ Regulation	±5%	±5%	±5%	±10%	±5%
*② Ripple	50mV	120mV	50mV	100mV	50mV
*② Ripple & Noise	100mV	150mV	100mV	150mV	100mV

*① The continuous total output power is 200W max.

- The combined power of +5V and +3.3V is 80W max.
- Peak currents may last up to 15 seconds with not more than one occurrence per minute

*② Add 0.1uF and 10uF capacitors across output terminal during ripple & noise test.

*③ LOAD REGULATION TEST TABLE:

	+5V	+12V	+3.3V	-12V	+5Vsb
LOAD1	9.0	9.0	9.0	0.3	2.0
LOAD2	7.0	12.5	0.5	0.3	2.0
LOAD3	13.0	8.3	4.5	0.3	2.0
LOAD4	13.0	10.0	0.5	0.3	2.0
LOAD5	1.0	13.5	10.0	0.0	0.0
LOAD6	4.8	8.3	17.0	0.3	2.0
LOAD7	0.3	15.0	5.5	0.0	0.0
LOAD8	0.3	1.0	0.5	0.0	0.0

2.1 REMOTE ON/OFF

TTL High/PS-OFF; TTL Low/PS-ON

$V_{IL}=0.8V_{max}$, $I_{IL}=-1.6mA_{max}$ @ $V_{in}=0.4V$

$V_{IH}=2.0V_{min}$ @ $I_{in}=-200\mu A$, $V_{IH}=5.25V_{max}$ @open ckt.

2.2 HOLD-UP TIME

16msec (minimum) at 80% of full load, at 230AC input.

2.3 POWER GOOD DELAY

100-500 msec.

2.4 POWER FAIL DELAY

>1 msec.

2.5 TURN-ON DELAY TIME

2000 msec max.At Nominal Line Full Load.

2.6 TRANSIENT OVERSHOOT

+/- 10% max with 20% load change on all outputs are 50% of the rated.

2.7 RISE TIME

20ms max at full load.

3.0 PROTECTION:

When OPP, OVP or short protection is triggered, the main outputs will be latched off. The main outputs can be reset by cycling the DC remote on/off or AC power. +5Vsb output is auto recovery when fault condition removed.

3.1 OVER POWER PROTECTION

Foldback at 110%~150% over peak load

3.2 OVER VOLTAGE PROTECTION

+3.3V output 4.5 Vmax.

+5.0V output 7.0 Vmax.

+12.0V output 15.6 Vmax.

3.3 SHORT PROTECTION

All output to GND.

4.0 ENVIRONMENT:

4.1 OPERATING TEMP. 10 °C to +40 °C

4.2 STORAGE TEMP. -20 °C to +70 °C

4.3 OPERATING HUMIDITY 20% to 90%,non-condensing

4.4 STORAGE HUMIDITY 5% to 95%, non-condensing

4.5 OPERATING ALTITUDE 0 to 10,000 feet

4.6 STORAGE ALTITUDE 0 to 50,000 feet

5.0 HI-POT:(Input/Output isolation)

5.1 PRIMARY TO SECONDARY

4242Vdc for 1 minute

5.2 INSULATION RESISTANCE

Primary to earth ground 500Vdc , 50M ohms Min.

6.0 CE REQUIREMENTS

6.1 CONDUCTED EMI

- 1.FCC : Class B
- 2.CISPR 22 : Class B
- 3.BSMI : Class B

6.2 SAFETY STANDARDS

- 1.CUL (UL 60950)
- 2.TUV EN60950
- 3.CB (IEC 950)
- 4.CE
- 5.CCC

6.3 HARMONIC

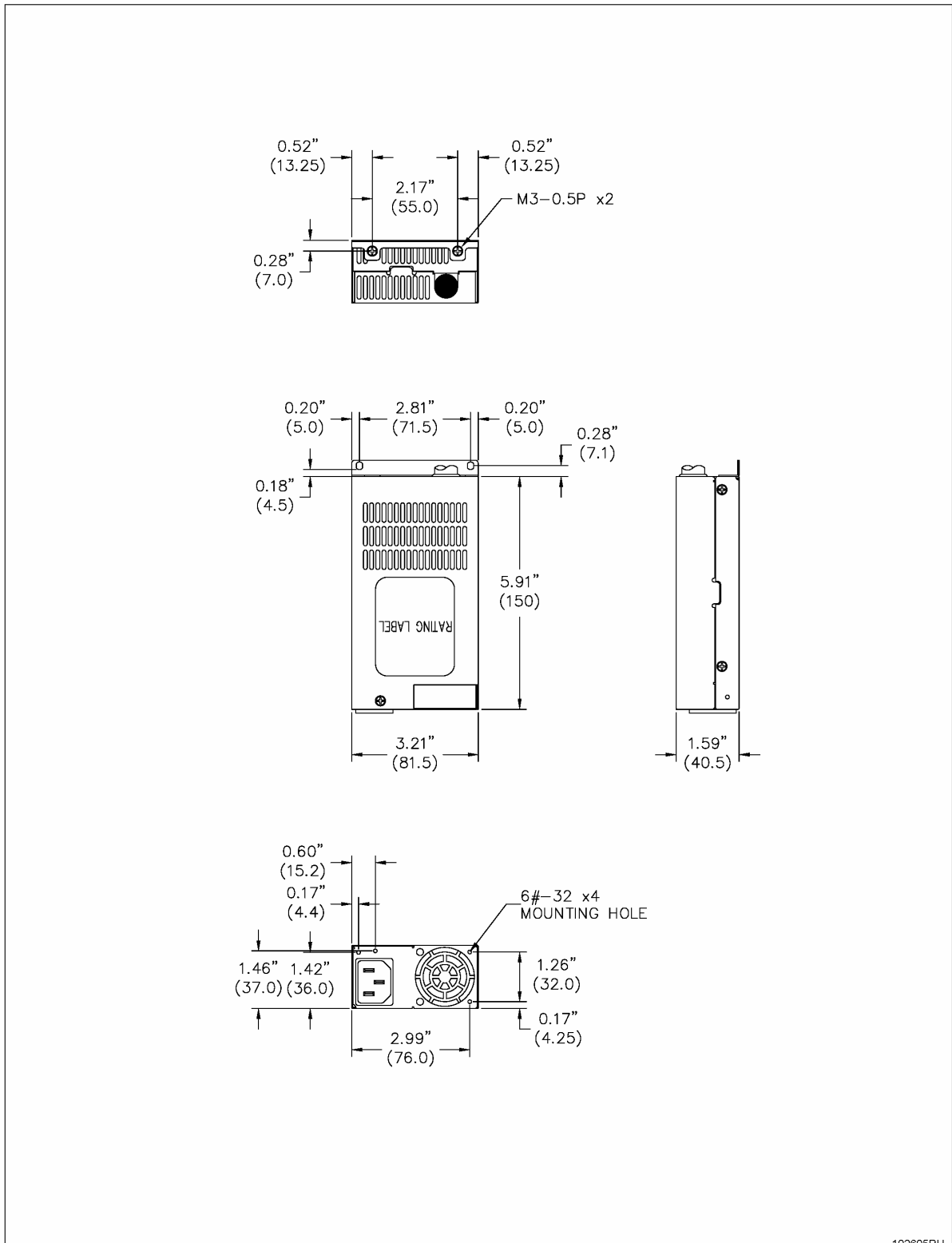
IEC1000-3-2,Class D

7.0 MTBFat 25°C(demonstrated)

80K hrs minimum

8.0 DIMENSIONS

W x L x H = 81.5 mm x 150.0 mm x 40.6 mm



102605RH

TOP MICROSYSTEMS CORP.	APPROVED C.C. HUANG	CHECKED C.C. HUANG	DRAWING NO. A-FlexATX-AC02	UNIT INCHES(MM)	REV. 0.1
	TITLE Standard; 200W OUTPUT	DESIGNED ANDY LEE	DRAWING LILAC	MODEL NO. P5200C 1F	SHEET 1/2