SPECIFICATIONS FOR 400W ATX SWITCHING POWER SUPPLIES

MODEL: MPT-400 DATE: 2001/01/11
REV: A CHECK BY: Rocky Lo

1. INPUT

1-1	AC INPUT VOLTAGE	100 TO 132 VAC OR 200 TO 264 VAC USER SELECTABLE
1-2	AC INPUT FREQUENCY	50 TO 60 HZ
1-3	AC INPUT CURRENT	8A RMS MAX. FOR 115 VAC 4.5A RMS MAX. FOR 230 VAC
1-4	MAXIMUM INRUSH CURRENT	40A FOR 110 VAC COLD START 80A FOR 220 VAC COLD START

2. OUTPUT

		OUTPUT1	OUTPUT 2	OUTPUT 3	OUTPUT4	OUTPUT5	OUTPUT 6
2-1	VOLTAGE	+5V DC	-5V DC	+12V DC	-12V DC	+3.3V DC	+5V SB
2-2	RIPPLE & NOISE	80mV	100mV	150mV	120mV	80mV	50mV
2-3	LINE REGULATION	± 1%	± 1%	± 1%	± 1%	± 1%	± 1%
2-4	TOLERANCE	± 5%	± 10%	-5+7%	± 10%	± 5%	± 5%
2-5	OUTPUT VOLTAGE	4.75~5.25	-4.50~-5.5	11.4~12.8	-10.8~-13.2	3.14~3.46	4.75~5.25
2-6	MAXIMUM CURRENT	35A	0.5A	15A	0.8A	22A	3A
2-7	MINIMUM CURRENT	1A	0A	0.3A	0A	0.3A	0A
2-8	+3.3V & +5V 210W MAX.						

3. FEATURE

3-1	SHORT CIRCUIT PROTECTION	ALL OUTPUTS EQUIPPED WITH SHORT CIRCUIT PROTECTION
3-2	OVER POWER PROTECTION	PEAK POWER PROTECTED TO BETWEEN 150%
3-3	OVER VOLTAGE PROTECTION	+5V=5.7V~6.5V,+12V=13.4V~15.6V,+3.3V=3.9V~4.3V

4. OVERALL PERFORMANCE

4-1	TOTAL OUTPUT POWER	400W CONTINUOUS MAXIMUM AT FULL LOAD
4-2	EFFICIENCY	65% MINIMUM AT FULL LOAD
4-3	HOLD UP TIME	14 mSEC AT MAXIMUMLOAD AND NORMAL INPUT VOLTAGE
4-4	STABILITY	± 0.5¢H AFTER 24 HOURS WARM UP

4-5	POWER GOOD	TTL COMPATIBLE SIGNAL OUT WITH 100 mSEC TO 500 mSEC DELAY AFTER POWER SET UP; POWER GOOD SIGNAL TURN TO LOW AT LEAST 1 mSEC BEFORE +5V DROP BELOW 4.75V

5. ENVIRONMENTAL CONDITIONS

5-1	OPERATING TEMPERATURE	10 TO 50 DEGREE C
5-2	COOLING	BY FORCED AIR
5-3	STORAGE TEMPERATURE	-40°C TO+ 70°C
5-4	STORAGE HUMIDITY	OPERTING TO 85% RELATIVE HUMIDITY NON-OPERATING TO 95% RELATIVE HUMIDITY

6. SAFETY STANDARD

UL,CUL,TUV, N, CB

7. EMI STANDARDS

CE,FCC

8. DIELECTRIC WITHSTAND VOLTAGE

8-1	INPUT TO GROUND	2121 VDC 1 min 10 mA
8-2	INPUT TO OUTPUT	4242 VDC 1 min 10 mA

9. INSULATION RESISTANCE

9-1	INPUT TO GROUND	>50 MΩ MINIMUM
9-2	INPUT TO OUTPUT	>50 MΩ MINIMUM

10. RELIABILITY

10-1 MEAN TIME BETWEEN FAILURE: 30K HOURS AT 25°C AMBIENT.

11. DC OUTPUT CONFIGURATION

MAIN POWER CONNECTOR P1 20PIN

PIN OUTPUT COLOR	COLOR OUTPUT PIN
1 +3.3VDC PUPPLE	PURPLE +3.3V DC 11
2 +3.3VDC PUPPLE	BLUE -12V DC 12
3 COM BLACK	BLACK COM 13
4 +5VDC RED	GRAY PS-ON 14
5 COM BLACK	BLACK COM 15
6 +5VDC RED	BLACK COM 16

7 COM BLACK	BLACK COM 17
8 POK ORANGE	WHITE -5V DC 18
9 +5Vsb BROWN	RED +5V DC 19
10 +12V DC YELLOW	RED +5V DC 20

AUX POWER CONNECTOR P2 6PIN

PIN OUTPUT COLOR
1 COM BLACK
2 COM BLACK
3 COM BLACK
4 +3.3VDC PUPPLE
5 +3.3VDC PUPPLE
6 +5VDC RED

+12V POWER CONNECTOR P3 4PIN

PIN OUTPUT COLOR	COLOR OUTPUT PIN
1 COM BLACK	YELLOW +12V 3
2 COM BLACK	YELLOW +12V 4

12. CHASSIS MECHANICAL DIMENSION: