



MEAN WELL

SWITCHING POWER SUPPLY

ISO-9001 CERTIFIED MANUFACTURER

PT-4503

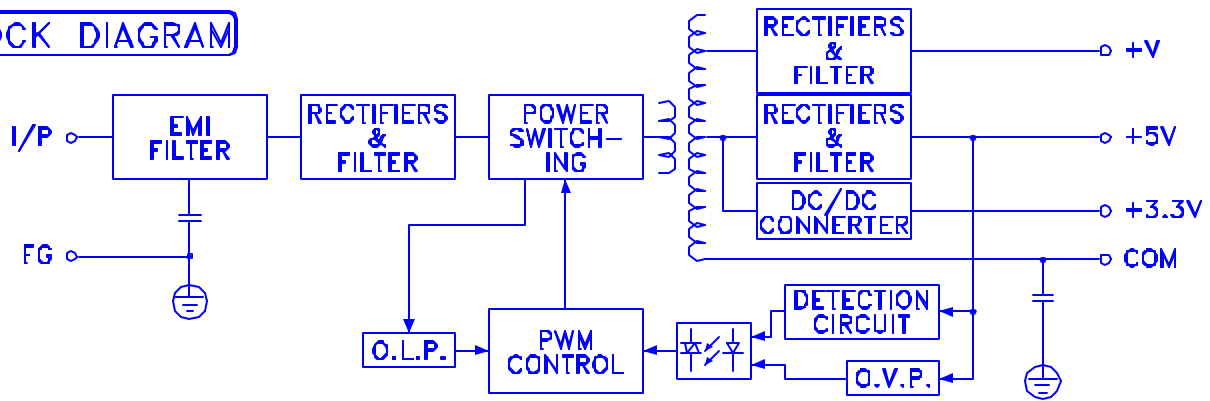
- .LOW COST, HIGH RELIABILITY
- .105° C OUTPUT CAPACITOR
- .INTERNATIONAL AC INPUT RANGE
- .HIGH EFFICIENCY, LOW WORKING TEMPERATURE
- .SOFT-START CIRCUIT, LIMITING AC SURGE CURRENT
- .SHORT CIRCUIT, OVERLOAD, OVER VOLTAGE PROTECTED
- .COMPACT SIZE, LIGHT WEIGHT
- .100% FULL LOAD BURN-IN TEST
- .BUILT IN EMI FILTER, LOW RIPPLE NOISE



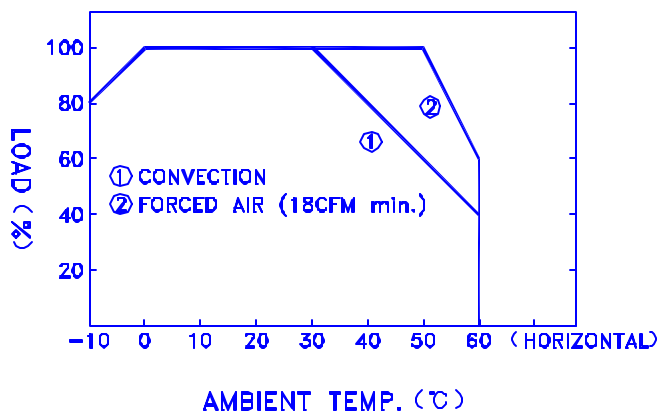
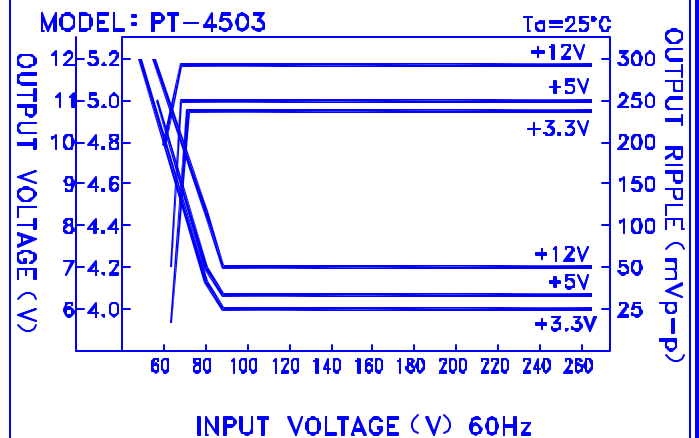
MODEL	CH1	CH2	CH3
SPECIFICATION			
DC OUTPUT VOLTAGE	3.3V	5V	12V
OUTPUT V. TOLERANCE	±2%	+4,-2%	±8%
OUTPUT RATED CURRENT	4A	4A	1A
OUTPUT CURRENT RANGE	0-5A	0.2-7A	0-1.2A
RIPPLE & NOISE	50mV	50mV	100mV
LINE REGULATION	±1%	±1%	±2%
LOAD REGULATION	±2%	±2%	±8%
RATED OUTPUT POWER	TOTAL POWER MAX. 45.2W (CH1+CH2 MAX. 35W)		
EFFICIENCY	72%		
DC VOLTAGE ADJ.	CH1:3-3.6V		
INPUT VOLTAGE RANGE	90~264VAC 47~63Hz; 120~370VDC		
AC CURRENT	1.2A/115V 0.7A/230V		
INRUSH CURRENT	COLD START 20A/115V 40A/230V		
LEAKAGE CURRENT	<1mA/240VAC		
OVERLOAD PROTECTION	120~160% PULSING MODE RESET:AUTO RECOVERY		
OVER VOLTAGE PROTECTION	115%~135% ON +5V		
TEMP. COEFFICIENT	±0.03% / ° C (0~50° C)		
SETUP,RISE,HOLD UP TIME	800ms, 50ms, 16ms		
VIBRATION	10~500Hz, 2G 3AXES 10min. / 1cycle (1 HOUR / EACH AXES)		
WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC 1min.		
ISOLATION RESISTANCE	I/P-O/P,I/P-FG,O/P-FG:500VDC / 100M Ohms		
WORKING TEMP., HUMIDITY	-10° C~+60° C(REFER TO OUTPUT DERATING CURVE), 20%~90% RH		
STORAGE TEMP., HUMIDITY	-20° C~+85° C, 10%~95% RH		
DIMENSION	127*76.2*30mm (L*W*H) PCB ONLY		
WEIGHT	0.25Kgs		
SAFETY STANDARDS	UL1950,TUV EN60950 APPROVED		
EMC STANDARDS	EN50081-1, EN50082-1 VERIFICATION		

NOTE : 1.ALL PARAMETERS ARE SPECIFIED AT 230VAC INPUT, RATED LOAD, 25° C 70% RH. AMBIENT.
2.TOLERANCE GINCLUDE SET UP TOLERANCE, LINE REGULATION, LOAD REGULATION.
3.RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
4.LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
5.OUTPUT PROVIDE UP TO MAXIMUM CURRENT, BUT RELATED TO MAXIMUM OUTPUT POWER.
6.MOUNTING HOLES M1 AND M2 SHOULD BE GROUNDED FOR EMI PURPOSES.

1999-09-02

BLOCK DIAGRAM

fosc : 65KHz

OUTPUT DERATING**STATIC CHARACTERISTICS****DIMENSION (mm)**☒ **TERMINAL PIN NO. ASSIGNMENT**

☒ CN1 : MOLEX 5277-02
PIN 1,2 : AC INPUT

☒ CN2 : MOLEX 5273-08

☒ PIN 1,2 : DC OUTPUT +5V

☒ PIN 3,4,5: DC OUTPUT COM

☒ PIN 6 : DC OUTPUT +V

☒ PIN 7,8 : DC OUTPUT +3.3V

☒ **MATING CONNECTORS**

☒ CN1,2 MATING CONNECTOR TYPE
MOLEX 5195 AND 5239 SERIES
OR EQUIVALENT WITH MOLEX
5194 AND 5225 OR EQUIVALENT
CRIMP TERMINALS.

