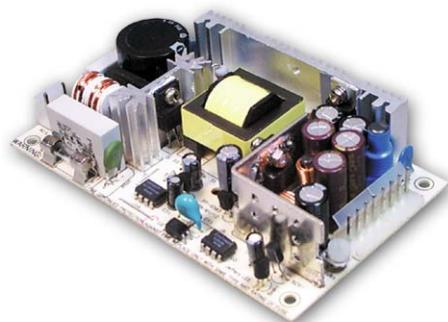




45W Triple Output with 3.3V output

PT-4503



## ■ Features :

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 100% full load burn-in test
- Fixed switching frequency at 65KHz
- 2 years warranty

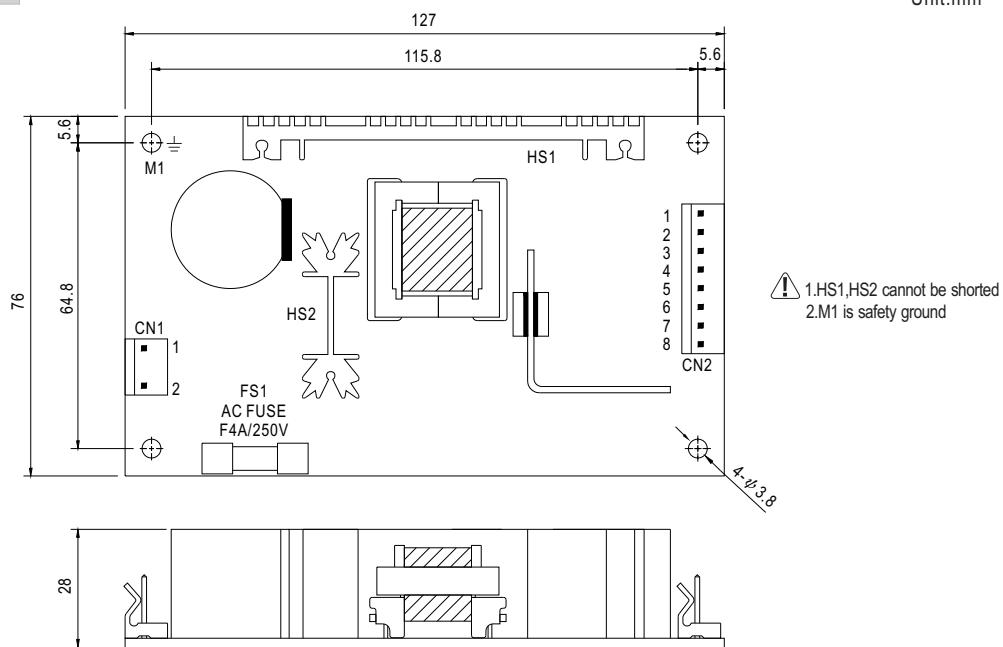
User's Manual



## SPECIFICATION

MODEL	PT-4503		
OUTPUT	OUTPUT NUMBER	CH1	CH2
	DC VOLTAGE	3.3V	5V
	RATED CURRENT	4A	4A
	CURRENT RANGE	0 ~ 5A	0.2 ~ 7A
	RATED POWER	Total power max. 45.2W(CH1+CH2 max. 35W)	
	RIPPLE & NOISE (max.) Note.2	50mVp-p	50mVp-p
	VOLTAGE ADJ. RANGE	CH1: 3 ~ 3.6V	
	VOLTAGE TOLERANCE Note.3	±2.0%	+4,-2%
	LINE REGULATION	±1.0%	±1.0%
	LOAD REGULATION	±2.0%	±2.0%
INPUT	SETUP, RISE TIME	800ms, 50ms at full load	
	HOLD UP TIME (Typ.)	60ms at full load	
	VOLTAGE RANGE	90 ~ 264VAC	127 ~ 370VDC [DC input operation possible by connecting AC/N(-), AC/L(+)]
	FREQUENCY RANGE	47 ~ 63Hz	
	EFFICIENCY (Typ.)	72%	
	AC CURRENT (Typ.)	1.2A/115VAC	0.7A/230VAC
PROTECTION	INRUSH CURRENT (Typ.)	COLD START 20A/115V	40A/230V
	LEAKAGE CURRENT	<1mA / 240VAC	
	OVERLOAD	120 ~ 160% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed	
	OVER VOLTAGE	5.75 ~ 6.75V on +5V Protection type : Hiccup mode, recovers automatically after fault condition is removed	
ENVIRONMENT	WORKING TEMP.	-10 ~ +60°C (Refer to "Derating Curve")	
	WORKING HUMIDITY	20 ~ 90% RH non-condensing	
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH	
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)	
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes	
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL62368-1, TUV EN62368-1, EAC TP TC 004 approved	
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC	I/P-FG:2KVAC O/P-FG:0.5KVAC 1min.
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH	
	EMC EMISSION	Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020	
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,11, light industry level, criteria A, EAC TP TC 020	
OTHERS	MTBF	220.9Khrs min. MIL-HDBK-217F (25°C)	
	DIMENSION	127*76*28mm (L*W*H)	
	PACKING	0.23Kg; 72pcs/17.6Kg/1.28CUFT	
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on <a href="http://www.meanwell.com">http://www.meanwell.com</a> ) 5. Mounting holes M1 and M2 should be grounded for EMI purposes. 6. Heat Sink HS1,HS2 can not be shorted. 7. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).		

## ■ Mechanical Specification



AC Input Connector (CN1) : Molex 5277-02 or equivalent

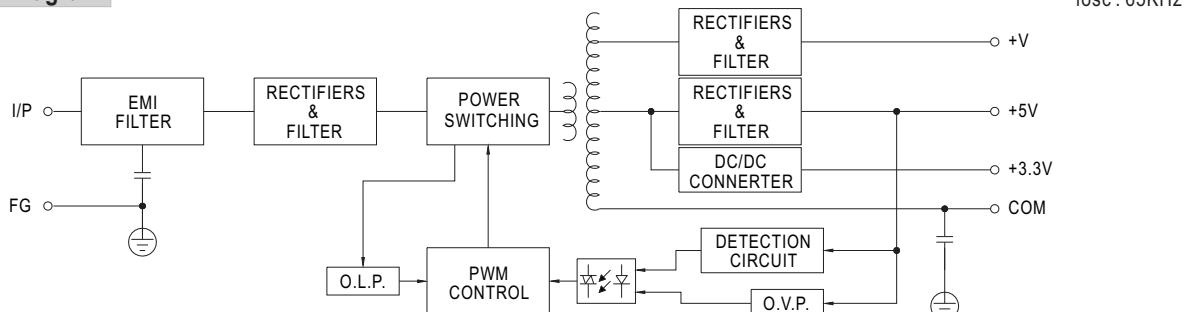
Pin No.	Assignment	Mating Housing	Terminal
1	AC/N(-)	Molex 5195 or equivalent	Molex 5194 or equivalent
2	AC/L(+) 		

: Grounding Required

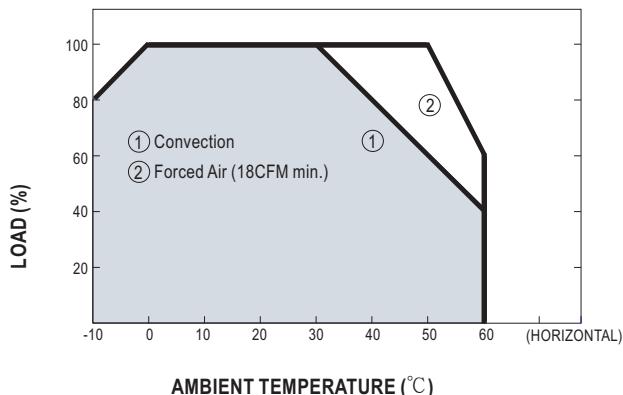
DC Output Connector (CN2) : Molex 5273-08 or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1,2	+5V	Molex 5195 or equivalent	Molex 5194 or equivalent
3,4,5	COM		
6	+V		
7,8	+3.3V		

## ■ Block Diagram



## ■ Derating Curve



## ■ Static Characteristics

