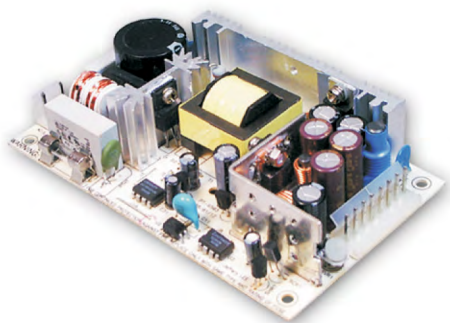


45W Triple Output with 3.3Volts(DC) output

PT4503 series



- Universal AC input
- Protections: Short circuit / Overload / Over voltage
- Fixed switching frequency at 65KHz
- Cooling by free air convection



Model Number	Output Volts	Output Amps	Ripple & Noise	Line Reg	Load Reg	Volt Tolerance	Min Load
TRIPLE OUTPUT							
PT-4503	3.3 Volts(DC)	4.0 Amps	50mVpk-pk	±1.0%	±2.0%	±2.0%	0~5Amps
	5 Volts(DC)	4.0 Amps	50mVpk-pk	±1.0%	±2.0%	+4,-2%	0.2~7Amps
	12 Volts(DC)	1.0 Amps	100mVpk-pk	±2.0%	±8.0%	±8.0%	0~1.2Amps

45W Triple Output with 3.3Volts(DC) output

PT4503 series

INPUT SPECIFICATIONS

Input Voltage Range	90-264VAC / 127-370 Volts(DC)
Frequency Range	47-63 Hz
Inrush Current, typ: (cold start)	20 Amps @ 115VAC 40 Amps @ 230VAC
Input Current	1.2 Amps max @ 115VAC 0.7 Amps max @ 230VAC
Leakage current	< 1mAmps /240VAC

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart
Line Regulation	See Selection Chart
Load Regulation	See Selection Chart
Voltage Tolerance (Note 2)	See Selection Chart
Ripple/Noise (Note 1)	See Selection Chart
Hold Up Time @ FL	60mS
Setup, Rise Time @ FL	800mS, 50mS
Over Voltage Protection	5Volts(DC) only: 5.75~6.75Volts(DC) Hiccup mode, auto recover
Over Current Protection	120~160% rated output power Hiccup mode, auto recover
DC Voltage Adjust	3.3Volts(DC): 3~3.6Volts(DC)

GENERAL SPECIFICATIONS

Safety	UL60950-1 TUV EN60950-1 Approved
Insulation Resistance	≥ 100MΩ / 500Volts(DC)
EMI	Compliance to EN55022 (CISPR22) Class B
Harmonic Current	Compliance to EN61000-3-2,-3
Efficiency	72%
Isolation	3000VAC Input - Output 1500VAC Input - Ground 500VAC Output - Ground 1min

EMS	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024 light industry level, criteria A
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ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-10°C to +60°C (See Derate Curve)
Storage Temperature	-20°C to +85°C, 10~95% RH
Relative Humidity	20 to +90% RH non cond
Temperature Coefficient	±0.03% / °C (0-50°C) on +5Volts output
MTBF	220.9KHrs min, MIL-HDBK-217F (25°C)
Vibration	10~500Hz, 2G10min./1cycle, period for 60min. each along X, Y, Z axes

PHYSICAL SPECIFICATIONS

Size	
Millimeters	127 x 76 x 28
Inches	5" x 2.99" x 1.10"
Weight	8.11 oz (230g)

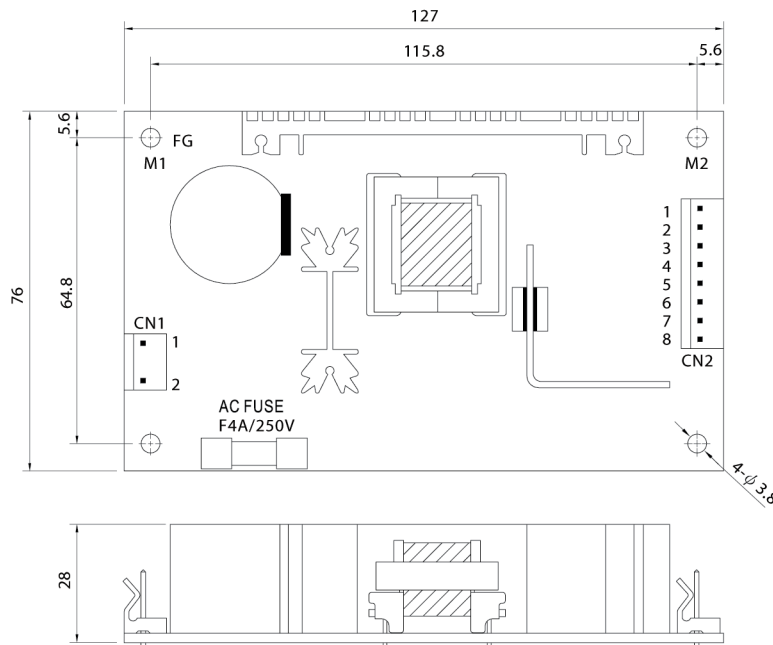
NOTE

1. Ripple and Noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47 uf parallel capacitor.
2. Tolerance: includes set up tolerance, line regulation and load regulation.
3. Mounting holes M1 and M2 should be grounded for EMI purposes.

All specifications are typical at nominal input, full load, and 25°C unless otherwise noted

■ Mechanical Specification

Unit:mm



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

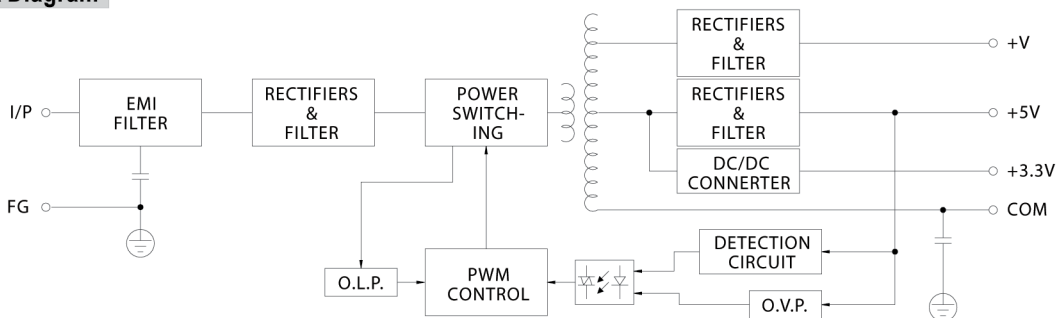
Pin No.	Assignment	Mating Housing	Terminal
1	AC/N	Molex 5195 or equivalent	Molex 5194 or equivalent
2	AC/L		

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

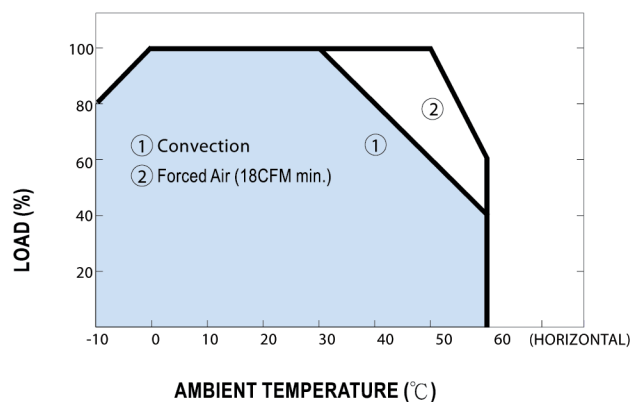
Pin No.	Assignment	Mating Housing	Terminal
1,2	+5V	Molex 5195 or equivalent	Molex 5194 or equivalent
3,4,5	COM		
6	+V		
7,8	+3.3V		

fosc : 65KHz

■ Block Diagram



■ **Output Derating**



■ **Static Characteristics**

