

- Universal AC input
- With power good LED
- Protections: Short circuit / Overload / Over voltage
- Fixed switching frequency at 45KHz
- Cooling by free air convection



Model Number Output Volts Output Amps Ripple & Noise Line Reg Load Reg Efficiency Volt Tolerance Min Load

DUAL OUTPUT

PD-110A	5 Volts(DC)	5 Amps	100mVpk-pk	±1.0%	±1.0%	75%	±2.0%	0.5~5.0Amps
	12 Volts(DC)	6.5 Amps	150mVpk-pk	±2.0%	±5.0%	75%	±6.0%	0.5~6.5Amps
PD-110B	5 Volts(DC)	5 Amps	100mVpk-pk	±1.0%	±1.0%	78%	±2.0%	0.5~5.0Amps
	24 Volts(DC)	3.5 Amps	200mVpk-pk	±2.0%	±5.0%	78%	±6.0%	0.5~3.5Amps

110W Dual Output Switching Power Supply

PD110 series

INPUT SPECIFICATIONS

Input Voltage Range	100-264VAC / 141-370 Volts(DC) (90~100VAC 90% load max)
Frequency Range	47~63Hz
Inrush Current, typ: (cold start)	40 Amps
Input Current	3.0 Amps max @115VAC 1.5 Amps max @ 230VAC
Leakage Current	< 1.0mAmps / 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	80mS @ FL
Setup, Rise Time @ FL	1200mS, 50mS @ FL
Over Voltage Protection	5Volts(DC) only: 5.75~6.75Volts(DC) Hiccup mode, auto recover
Over Current Protection	105~135% rated output power Hiccup mode, auto recover
DC Voltage Adjust	4.75~5.5Volts(DC): 5Volts(DC) only

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	See Selection Chart
Isolation	3000VAC Input - Output 1500VAC Input - Ground 500VAC Output - Ground

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

Oper. Temperature	-10°C to +50°C, 60°C with cooling fan (See Derate Curve)
Storage Temperature	-20°C to +85°C, 10~95% RH
Relative Humidity	20 to +90% RH
Temperature Coefficient	±0.03% / °C (0-50°C) ON +5V output
MTBF	323K Hrs min, MIL-HDBK-217F (25°C)
Vibration	10~500Hz, 2G10min./1cycle, period for 60min. each along X, Y, Z axes

PHYSICAL SPECIFICATIONS

Size	Millimeters	177.8 x 107.95 x 46
	Inches	7" x 4.25" x 1.81"
Weight		17.99 oz (510g)

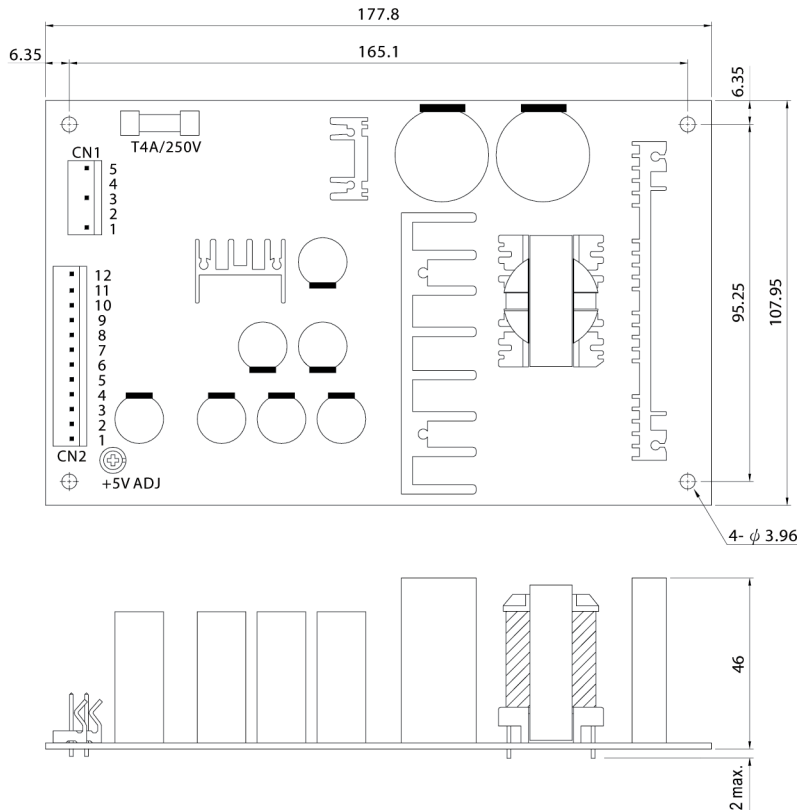
NOTE

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.

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

Mechanical Specification

Unit:mm



AC Input Connector (CN1) : Molex 5273-05 or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	FG \perp	Molex 5195 or equivalent	Molex 5194 or equivalent
2,4	No Pin		
3	AC/N		
5	AC/L		

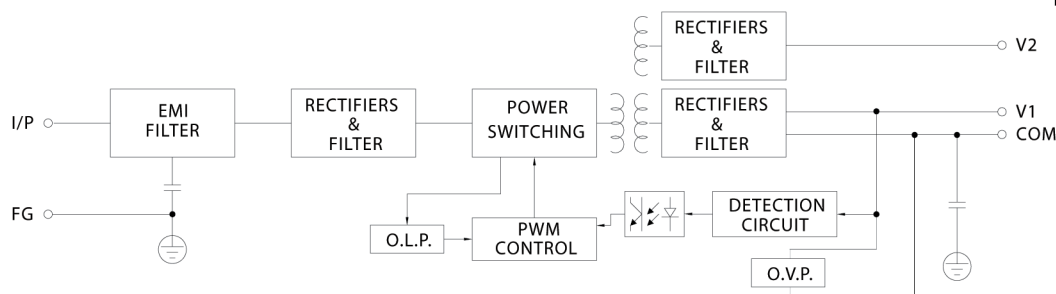
DC Output Connector (CN2) : Molex 5273-12 or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1,2,3	V1	Molex 5195 or equivalent	Molex 5194 or equivalent
4,5,6,7	COM		
8,9,10	V2		
11,12	V3(Optional)		

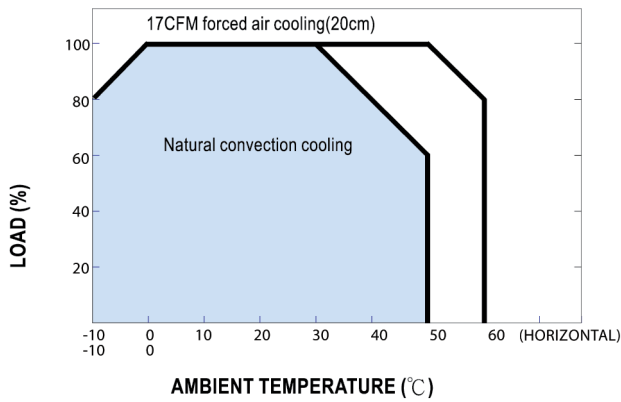
Pin No.	MODEL	
	PD-110A	PD-110B
1,2,3	+5V	+5V
8,9,10	+12V	+24V

Block Diagram

fosc : 45KHz



Derating Curve



Static Characteristics (A)

