Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

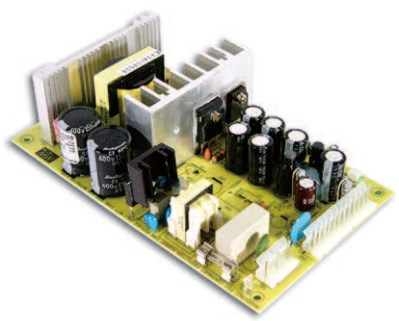
With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

110W Dual Output Switching Power Supply PD-110 series



■ Features :

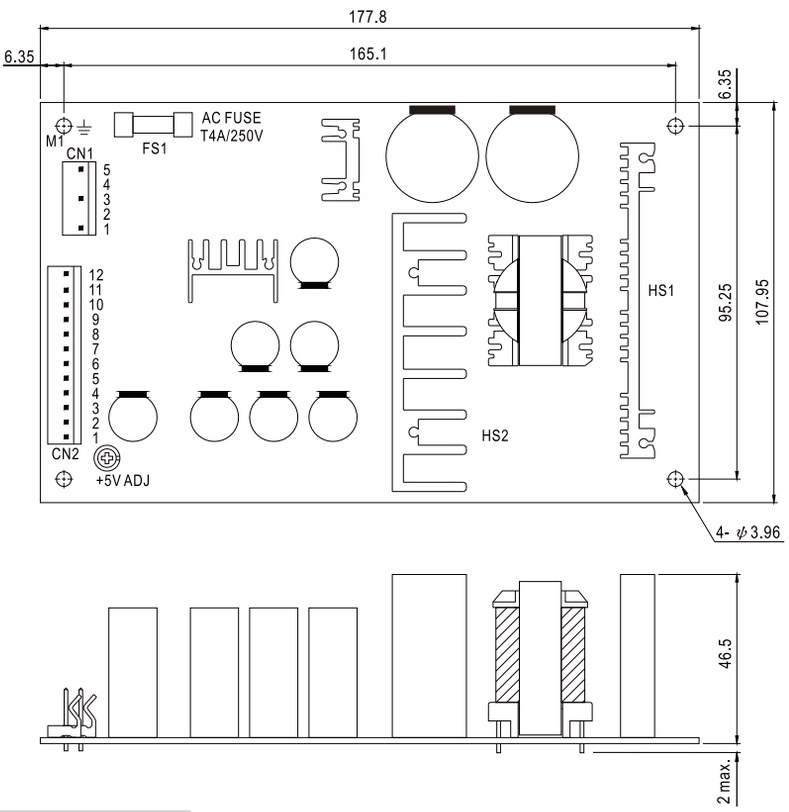
- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- With power good signal output(Optional)
- 100% full load burn-in test
- Fixed switching frequency at 45KHz
- 2 years warranty

SPECIFICATION

MODEL		PD-110A		PD-110B	
OUTPUT	OUTPUT NUMBER	CH1	CH2	CH1	CH2
	DC VOLTAGE	5V	12V	5V	24V
	RATED CURRENT	5A	6.5A	5A	3.5A
	CURRENT RANGE	0.5 ~ 5A	0.5 ~ 6.5A	0.5 ~ 5A	0.5 ~ 3.5A
	RATED POWER	103W		109W	
	RIPPLE & NOISE (max.) Note.2	100mVp-p	150mVp-p	100mVp-p	200mVp-p
	VOLTAGE ADJ. RANGE	CH1:4.75 ~ 5.5V		CH1:4.75 ~ 5.5V	
	VOLTAGE TOLERANCE Note.3	±2.0%	±6.0%	±2.0%	±6.0%
	LINE REGULATION	±1.0%	±2.0%	±1.0%	±2.0%
	LOAD REGULATION	±1.0%	±5.0%	±1.0%	±5.0%
	SETUP, RISE TIME	1200ms, 50ms at full load			
	HOLD UP TIME (Typ.)	80ms at full load			
INPUT	VOLTAGE RANGE	100 ~ 264VAC 141 ~370VDC (90 ~ 100VAC 90% load max.) [DC input operation possible by connecting AC/N(-), AC/L(+)]			
	FREQUENCY RANGE	47 ~ 63Hz			
	EFFICIENCY(Typ.)	75%		78%	
	AC CURRENT (Typ.)	3A/115VAC 1.5A/230VAC			
	INRUSH CURRENT (Typ.)	COLD START 45A			
	LEAKAGE CURRENT	<1mA /240VAC			
PROTECTION	OVERLOAD	105% ~ 135% rated output power			
		Protection type : Hiccup mode, recovers automatically after fault condition is removed			
	OVER VOLTAGE	CH1: 5.75 ~ 6.75VDC			
		Protection type : Hiccup mode, recovers automatically after fault condition is removed			
ENVIRONMENT	WORKING TEMP.	-10 ~ +50℃,60 ℃ with cooling fan (Refer to "Derating Curve")			
	WORKING HUMIDITY	20 ~ 90% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-20 ~ +85℃, 10 ~ 95% RH			
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)			
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes			
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL60950-1, TUV EN60950-1, EAC TP TC 004 approved			
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC			
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃/ 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	323K hrs min. MIL-HDBK-217F (25℃)			
	DIMENSION	177.8*107.95*46.5mm (L*W*H)			
	PACKING	0.51Kg; 24pcs/13.1Kg/1.19CUFT			
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ 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 http://www.meanwell.com) 5. Heat Sink HS1,HS2 can not be shorted. 6. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft).				

■ Mechanical Specification

Unit:mm



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

Pin No.	Assignment	Mating Housing	Terminal
1	FG ⏚	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(Option)		

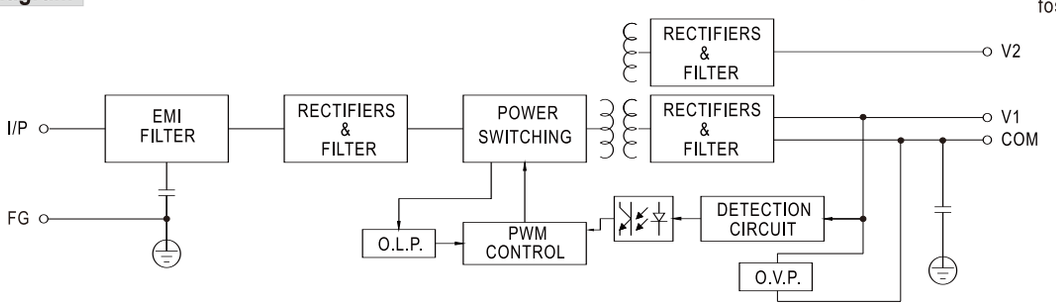
MODEL / Pin No.	PD-110A	PD-110B
1,2,3	+5V	+5V
8,9,10	+12V	+24V

⏚ : Grounding Required

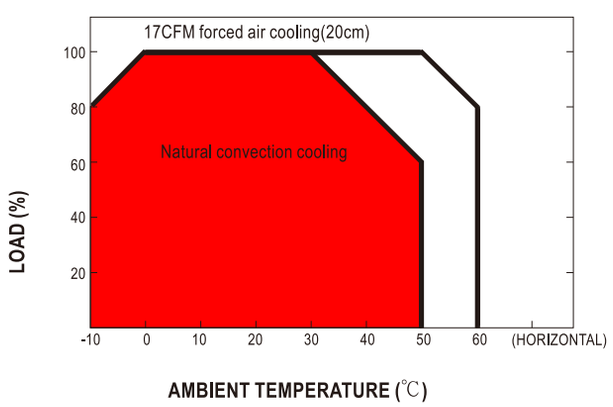
⚠ 1.HS1,HS2 cannot be shorted
2.M1 is safety ground

■ Block Diagram

fosc : 45KHz

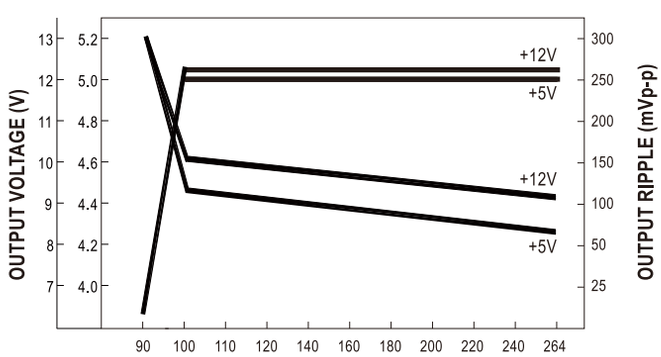


■ Derating Curve



AMBIENT TEMPERATURE (℃)

■ Static Characteristics (A)



INPUT VOLTAGE (V) 60Hz