



■ Features :

- Universal AC input / Full range
- Isolated output & GND for CH1,CH2
- Built-in active PFC function, PF>0.92
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Remote control for CH1
- Peak load 170% for CH1 within 10 sec.
- Cooling by free air convection
- 100% full load burn-in test
- 3 years warranty



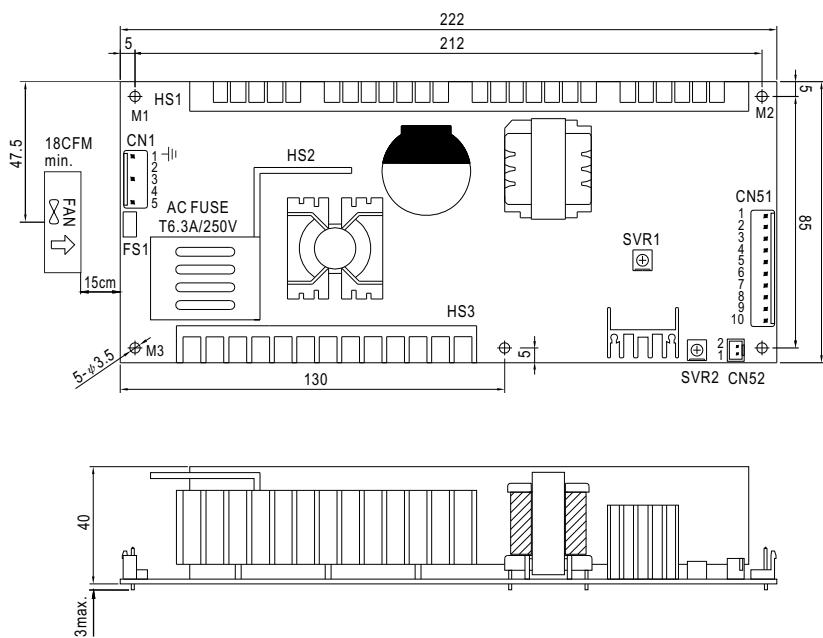
BS EN/EN62368-1 TPTC004 IEC62368-1

SPECIFICATION

MODEL	PID-250A		PID-250B		PID-250C		PID-250D							
OUTPUT	OUTPUT NUMBER	CH1	CH2	CH1	CH2	CH1	CH2	CH1	CH2					
	DC VOLTAGE	12V	5V	24V	5V	36V	5V	48V	5V					
	RATED CURRENT	15A(Peak 20A)	5A	9.4A(Peak 16.7A)	5A	6.3A(Peak 11.1A)	5A	4.7A(Peak 8.4A)	5A					
	CURRENT RANGE Note.6	0 ~ 15A (Peak 20A)	0 ~ 5A	0 ~ 9.4A (Peak 16.7A)	0 ~ 5A	0 ~ 6.3A (Peak 11.1A)	0 ~ 5A	0 ~ 4.7A (Peak 8.4A)	0 ~ 5A					
	RATED POWER	205W		250.6W		251.8W		250.6W						
	ripple & noise (max.) Note.2	120mVp-p	50mVp-p	150mVp-p	50mVp-p	200mVp-p	50mVp-p	200mVp-p	50mVp-p					
	VOLTAGE ADJ. RANGE	10.8 ~ 13.2V	4.75 ~ 5.25V	21.6 ~ 26.4V	4.75 ~ 5.25V	32.4 ~ 39.6V	4.75 ~ 5.25V	43.2 ~ 52.8V	4.75 ~ 5.25V					
	VOLTAGE TOLERANCE Note.3	±3.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%					
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%					
	LOAD REGULATION	±1.0%	±2.0%	±1.0%	±2.0%	±1.0%	±2.0%	±1.0%	±2.0%					
INPUT	SETUP, RISE TIME	2500ms, 60ms/115VAC		1200ms, 60ms/230VAC										
	HOLD UP TIME (Typ.)	30ms at full load												
	VOLTAGE RANGE Note.5	90 ~ 264VAC 127 ~ 370VDC												
	FREQUENCY RANGE	47 ~ 63Hz												
	POWER FACTOR	PF≥0.92/230VAC PF≥0.97/115VAC at full load												
	EFFICIENCY(Typ.)	83%	86%	86%	86%	86%	86%	86%	86%					
	AC CURRENT (Typ.)	3A/115VAC	1.5A/230VAC											
PROTECTION	INRUSH CURRENT (Typ.)	COLD START 58A/230VAC												
	LEAKAGE CURRENT	<3.5mA / 240VAC												
	OVERLOAD	CH1: 105 ~ 170% rated output power Normally work within 10 sec and then shut down, re-power on to recover												
		Over 180% rated power or short circuit, constant current limiting within 10 sec and then shut down, re-power on to recover												
	CH2: 101 ~ 150% rated output power		Protection type : Hiccup mode, recovers automatically after fault condition is removed											
FUNCTION	OVER VOLTAGE	13.8 ~ 16.2V	5.5 ~ 6.75V	27.6 ~ 32.4V	5.5 ~ 6.75V	40 ~ 48V	5.5 ~ 6.75V	54 ~ 64.8V	5.5 ~ 6.75V					
		Protection type : Shut down o/p voltage, re-power on to recover for CH1 ; Hiccup mode, recovers automatically after fault condition is removed for CH2(by zener diode clamp)												
	OVER TEMPERATURE	Shut down o/p voltage(CH1), recovers automatically after temperature goes down												
ENVIRONMENT	REMOTE CONTROL	CN52 : Open=CH1 & CH2 power on ; Short = CH1 power off, CH2 power on; when CH2 is malfunction, CH1 will be shut down												
SAFETY & EMC (Note 4)	WORKING TEMP.	-20 ~ +70°C (Refer to "Derating Curve")												
	WORKING HUMIDITY	20 ~ 90% RH non-condensing												
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C , 10 ~ 95% RH												
	TEMP. COEFFICIENT	±0.05%/°C (0 ~ 50°C)												
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min each along X, Y, Z axes												
OTHERS	SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, 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°C / 70% RH												
	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020												
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61000-6-2, heavy industry level, criteria A, EAC TP TC 020												
NOTE	MTBF	150.4K hrs min. MIL-HDBK-217F (25°C)												
	DIMENSION	222*95*40mm (L*W*H)												
	PACKING	0.74Kg; 18pcs/14.3Kg/0.98CUFT												
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 http://www.meanwell.com) 5. Derating may be needed under low input voltage. Please check the derating curve for more details. 6. Peak current should reduce to 150% of rated value if the input voltage <110VAC. 7. Heat Sink HS1,HS2,HS3 can not be shorted. 8. 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). ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx														

■ Mechanical Specification

Unit:mm



AC Input Connector (CN1) : JST B5P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	FG \pm		
2,4	No Pin		
3	AC/N	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
5	AC/L		

\perp : Grounding Required

DC Output Connector (CN51) : JST B10P-VH or equivalent			
Pin No.	Assignment	Mating Housing	Terminal
1,2,3	COM1		
4,5,6	V1		
7,8	COM2	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
9,10	V2		

Remote ON/OFF Connector(CN52):JST B2B-XH or equivalent			
Pin No.	Status	Mating Housing	Terminal
PIN1,2 (Short)	V1: OFF V2: ON	JST XHP or equivalent	JST SXH-001T-P0.6 or equivalent
PIN1,2 (Open)	V1: ON V2: ON		

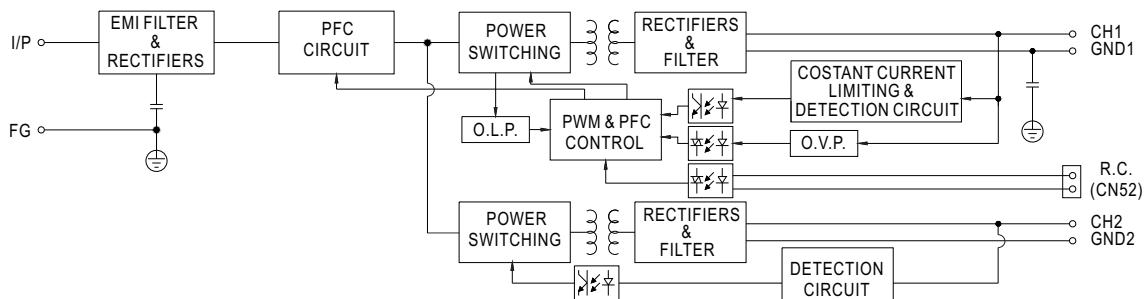
SVR1	For CH1
SVR2	For CH2



- 1.HS1,HS2,HS3 cannot be shorted.
 - 2.CN1:Pin1 is safety ground. For better EMC performance,Please secure an electrical connection between M1,M2,M3, and chassis grounding.

PFC fosc : 100KHz
PWM fosc : 100KHz

Block Diagram



■ Derating Curve

■ Output Derating VS Input Voltage

