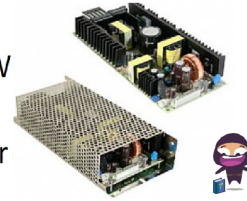




MEAN WELL
PID-250 250W
Isolated Dual
Output Power
Supply



MEAN WELL PID-250 250W Isolated Dual Output Power Supply Owner's Manual

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MEAN WELL PID-250 250W Isolated Dual Output Power Supply



Specifications

- Model:
 - PID-250A
 - PID-250B
 - PID-250C
 - PID-250D
- Output Number:
 - CH1, CH2
 - CH1, CH2
 - CH1, CH2
 - CH1, CH2
- DC Voltage:
 - 12V, 5V
 - 24V, 5V
 - 36V, 5V
 - 48V, 5V

Product Usage Instructions

Installation

1. Ensure the input voltage matches the specified range (90 ~ 264VAC).
2. Connect the DC output terminals (CH1, CH2) to your devices following the correct polarity.

Operation

1. Power on the device by connecting it to a suitable power source.
2. Use the remote control for CH1 if needed.

Maintenance

Regularly check for dust accumulation and ensure proper ventilation around the product for cooling.

FAQ

• **Q: What is the input efficiency of the PID-250 model?**

A: The input efficiency is typically 83% for this model.

• **Q: How many years of warranty does the product come with?**

A: The product comes with a 3-year warranty.

250W Isolated Dual Output with PFC Function

PID-250

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
- 2 years warranty



GTIN CODE

MW Search: <https://www.meanwell.com/serviceGTIN.aspx>



SPECIFICATION

MODEL		PID-250A		PID-250B		PID-250C		PID-250D	
	OUTPUT NUMBER	CH1	CH2	CH1	CH2	CH1	CH2	CH1	CH2
	DC VOLTAGE	12V	5V	24V	5V	36V	5V	48V	5V

OUTPUT	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%	
	SETUP, RISE TIME	2500ms, 60ms/115VAC 1200ms, 60ms/230VAC								
	HOLD UP TIME (Typ.)	30ms at full load								
INPUT	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%		
	AC CURRENT (Typ.)	3A/115VAC		1.5A/230VAC						
	INRUSH CURRENT (Typ.)	COLD START 58A/230VAC								
	LEAKAGE CURRENT	<3.5mA / 240VAC								
PROTECTION	OVERLOAD	<ul style="list-style-type: none">CH1: 105 ~ 170% rated output powerNormally work within 10 sec and then shut down, re-power on to recoverOver 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								

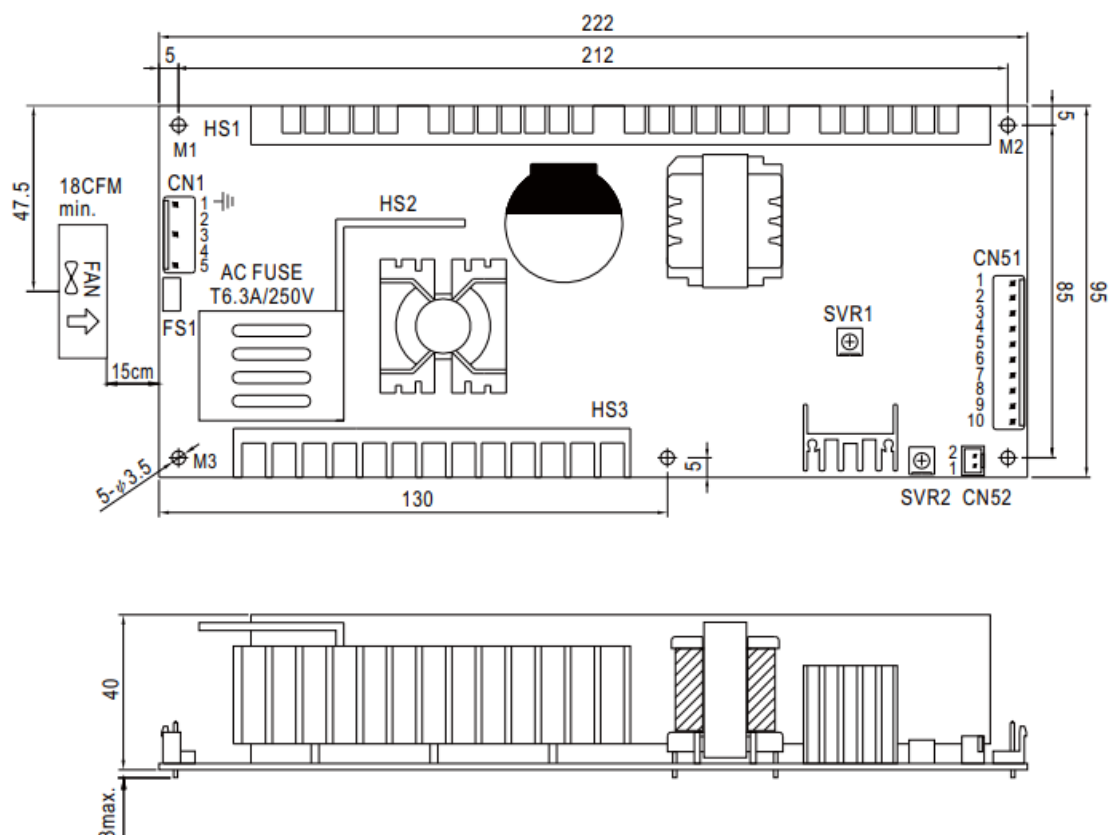
	OVER VOLTAGE	13.8 ~ 16.2V	5.5 ~ 6.75V	27.6 ~ 32.4V	5.5 ~ 6.75V	40 ~ 48V	5.5~ 6.75V	54 ~ 64.8V	5.5 ~ 6.75V
		Protection type : Shut down o/p voltage, re-power on to recover for CH1 ; Hiccup mode, recovers automatically afer fault condition is removed for CH2(by zener dio de clamp)							
	OVER TEMPERA TURE	Shut down o/p voltage(CH1), recovers automatically after temperature goes down							
FUNC TION	REMOTE CONTR OL	CN52 : Open=CH1 & CH2 power on ; Short = CH1 power off, CH2 power on; whe n CH2 is malfunction, CH1 will be shut down							
ENVI RON MENT	WORKING TEMP.	-20 ~ +70°C (Refer to “Derating Curve”)							
	WORKING HUMI DITY	20 ~ 90% RH non-condensing							
	STORAGE TEMP. , HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH							
	TEMP. COEFFICI ENT	±0.05%/°C (0 ~ 50°C)							
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min each along X, Y, Z axes							
SAFE TY & EMC (Note 4)	SAFETY STAND ARDS	UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved							
	WITHSTAND VO LTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC							
	ISOLATION RESI STANCE	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, EA C TP TC 020							
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, BS EN/EN61000-6-2, heavy industry level, EAC TP TC 020							
OTHE RS	MTBF	2091.7K hrs min. Telcordia SR-332 (Bellcore) ; 150.5K hrs min. MIL-HDBK -217F (25°C)							
	DIMENSION	222*95*40mm (L*W*H)							
	PACKING	0.74Kg; 18pcs/14.3Kg/0.98CUFT							

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 0.1μF & 47μF 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 "EM testing of component power supplies." (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)
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	JST VHR M or equivalent	JST SVH-21T-P1.1 or equivalent
2,4	No Pin		
3	AC/N		
5	AC/L		



: Grounding Required

DC Output Connector (CN51) : JST B10P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1,2,3	COM1	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
4,5,6	V1		
7,8	COM2		
9,10	V2		

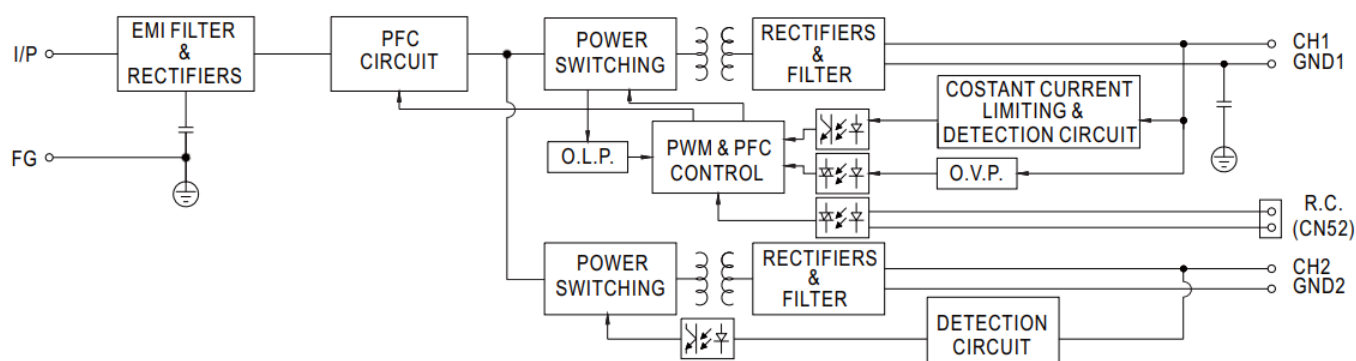
Remote ON/OFF Connector(CN52):JST B2B-XH or equivalent

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		

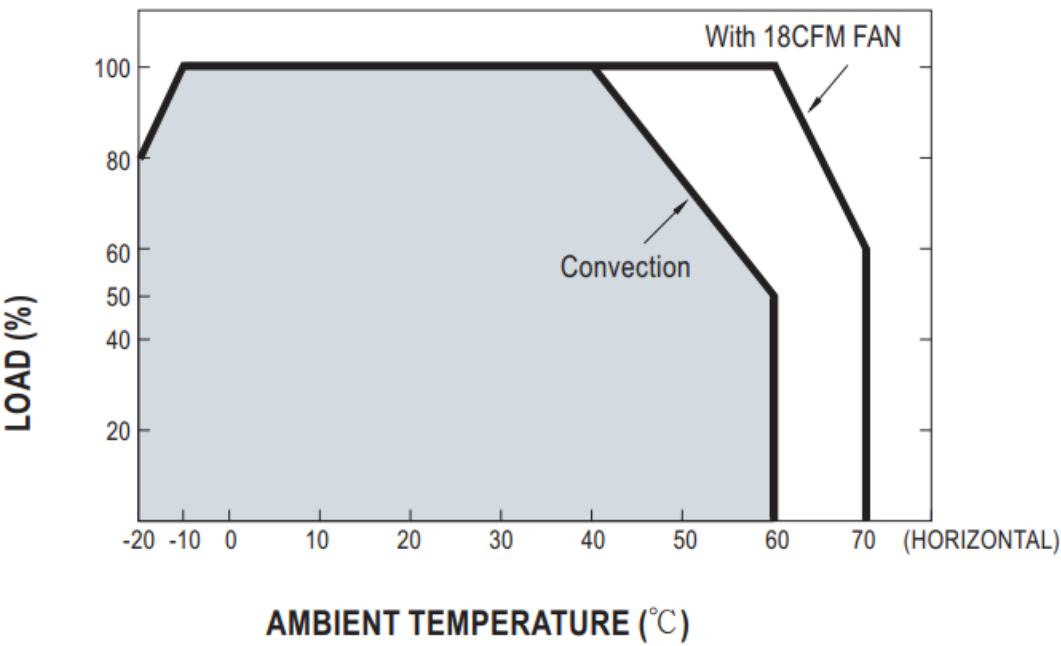
SVR1	For CH1
SVR2	For CH2

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.

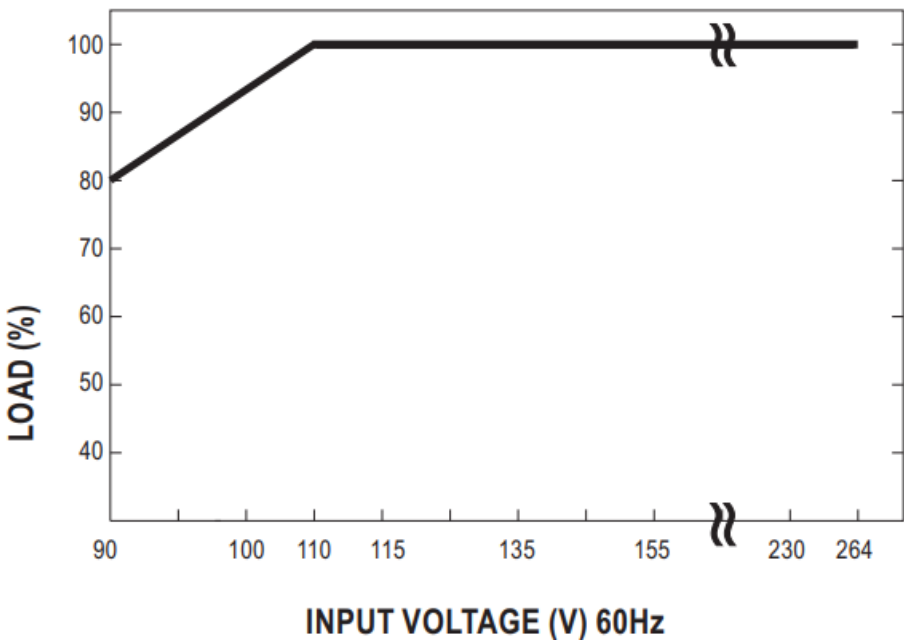
Block Diagram



Derating Curve




Output Derating VS Input Voltage



File Name:PID-250-SPEC 2024-02-23

Documents / Resources

	<p>MEAN WELL PID-250 250W Isolated Dual Output Power Supply [pdf] Owner's Manual PID-250, PID-250 250W Isolated Dual Output Power Supply, 250W Isolated Dual Output Power Supply, Isolated Dual Output Power Supply, Dual Output Power Supply, Output Power Supply, Power Supply, Supply</p>
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References

- [△ TÜV Rheinland - Home | AU | TÜV Rheinland](#)
- [User Manual](#)

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