



User Manual 用户手册



PROPOWER Series industrial power supply

250W single-output with PFC

Function rail-type industrial power supply

Model: PP-250-24

1. Product Features

- Full range of AC input: 90~264VAC
- Built-in active PFC function
- Protection types: short circuit / overload / overvoltage / overtemperature
- Installation rails: TS-35/7.5 or 15
- Narrow width: 50mm
- 100% full-load aging test
- Power-on LED indicator
- DC OK relay contacts (optional)
- High efficiency / high reliability
- 3-year warranty
- Compliant with IEC/EN/UL 62368-1

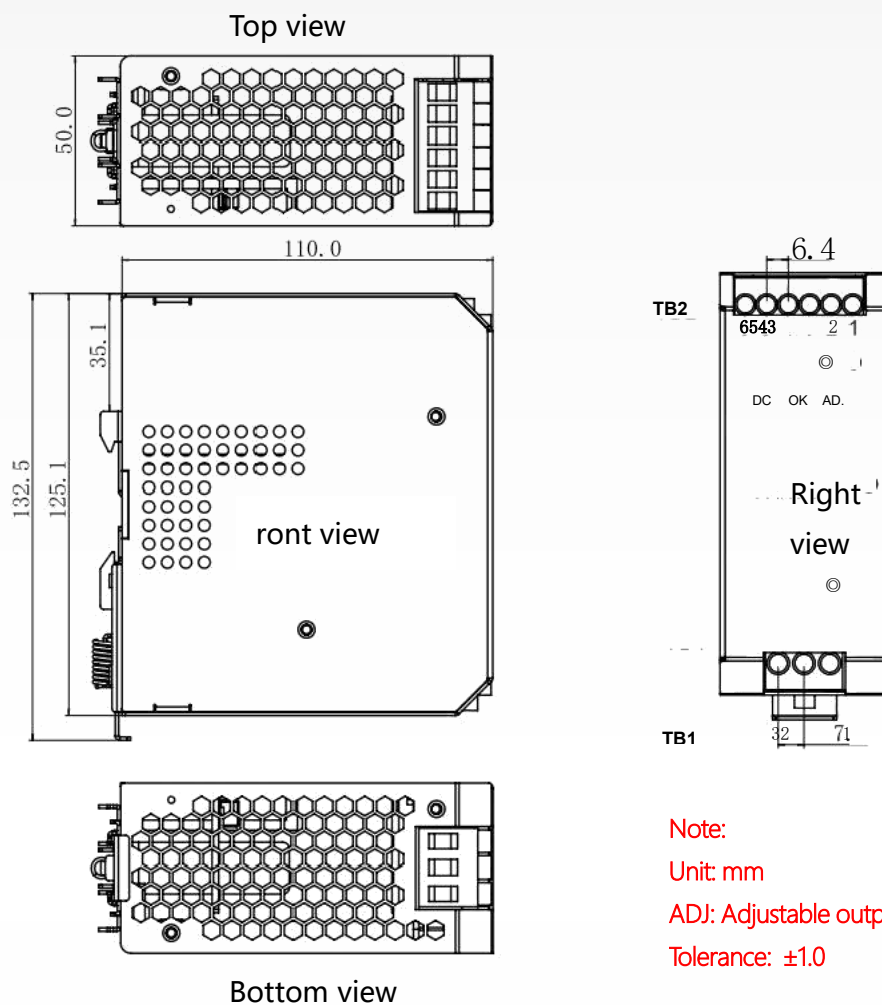
2.Electrical Specification

Electrical specifications		
Model number		PP-250-24
Input	Voltage range	90 - 264VAC 127 - 370VDC (refer to 'Static Characteristics Curve')
	Frequency range	47 ~ 63Hz
	Power factor (typical value)	PF > 0.98 / 115VAC PF > 0.95 / 230VAC Full load
	Efficiency (typical value)	93%
	AC current (typical value)	3A/115VAC 1.5A/230VAC
	Surge current (typical value)	20A/115VAC 40A/230VAC (cold start)
	Leakage current	<2mA/240VAC
Output	Direct current voltage	24V
	Rated current	10.4A
	Current range	0 ~ 10.4A
	Rated power	249.6W
	Ripple and noise (maximum value)	150mVpF
	Voltage adjustment range	24 ~ 28V
	Voltage accuracy	±1%
	Linear adjustment rate	±0.5%

	Load adjustment rate	±1%
	Start-up, rise time	1500ms,50ms/230VAC 3000ms,50ms/115VAC
	Retention time (typical value)	4ms/230VAC 14ms/115VAC
Protection	Overload	110% to 140% of the rated output power
		Protection mode: Overload > 0.2 seconds, power off, resumes after reboot
	Overvoltage	29 ~ 35V
		Protection mode: Shut down, then restore after reboot
	Overtemperature	Protection mode: Shut down, then restore after temperature drops
Function	DC OK signal (optional)	Contact specification (maximum value): 30VDC/1A resistive load
Environment	Operating temperature and humidity	-30 to +70°C (refer to "reduction curve"), 20 to 90% RH without condensation
	Storage temperature and humidity	-40 ~ +85°C,10 ~ 95%RH
	Temperature coefficient	±0.03%/°C(0 ~ 50°C)
	Vibration resistance	10 ~ 500Hz,2G 10min./1 cycle,each akong X、 Y、 Z axes
Other	Size	50*125.1*110mm(W*H*D)

Table 1 Power Supply Specifications Parameters

3.Institutional dimension drawing



Note:
Unit: mm
ADJ: Adjustable output resistor
Tolerance: ± 1.0

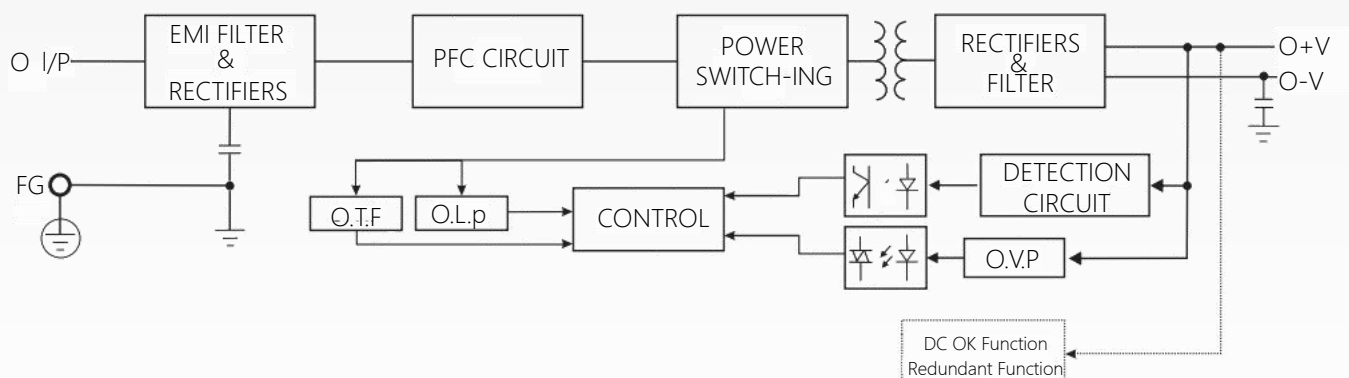
Install the guide rails: TS35/7.5 or TS35/15

Terminal platform position definition

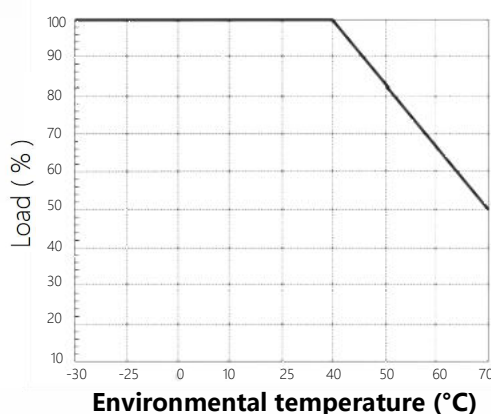
TB1		TB2	
Pin Number	Pin Function	Pin Number	Pin Function
1	AC/L	1,2	Relay contacts (optional)
2	AC/N	3,4	DC output -V
3	FG	5,6	DC output +V

4.1 curve

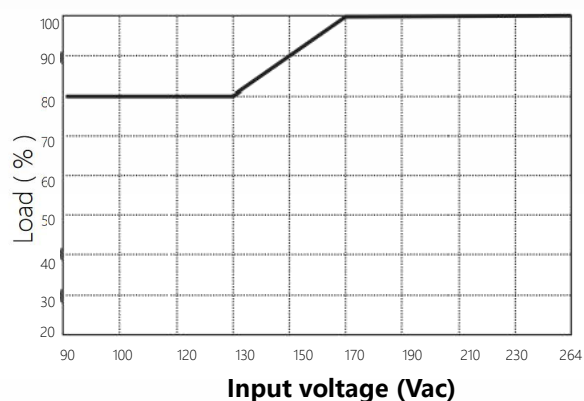
Block diagram



Reduction curve



Static characteristic curve

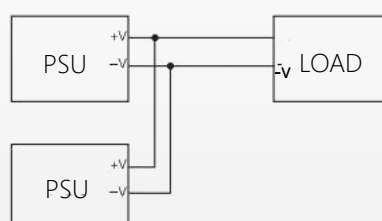


4.2 DC OK relay contacts (optional)

Contact closed	Power on / DC OK
Contact opened	Power off / DC FAIL
Contact specification (maximum value)	30V / 1A resistive load

3.3 Redundant Function (PP-250R)

1. PP-250R has built-in redundancy function and can be connected in parallel with two individual units.
2. When operating in parallel, the maximum load should not exceed the rated power of any power supply.



Official website



先进自动化控制及工业网络技术



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