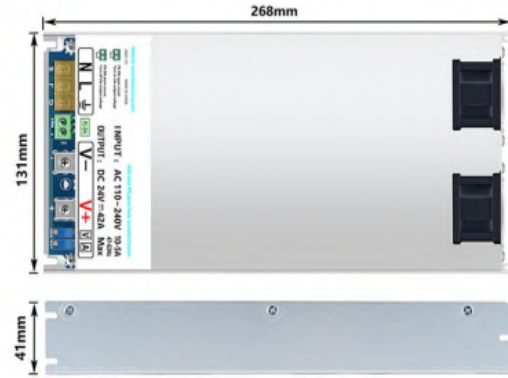


ACDC 1000W PFC



1. With active PFC Power Factor Correction Function
2. AC 110-240V wide voltage input
3. Frequency: 47-63Hz & PF Value ≥ 0.98
4. Constant voltage and constant current characteristics
5. Automatic adjustment of fan speed
6. Over voltage/Under voltage/Overload/
Overtemperature/Fan stop protection
7. Complies with EMC conduction/radiation
standards Class A

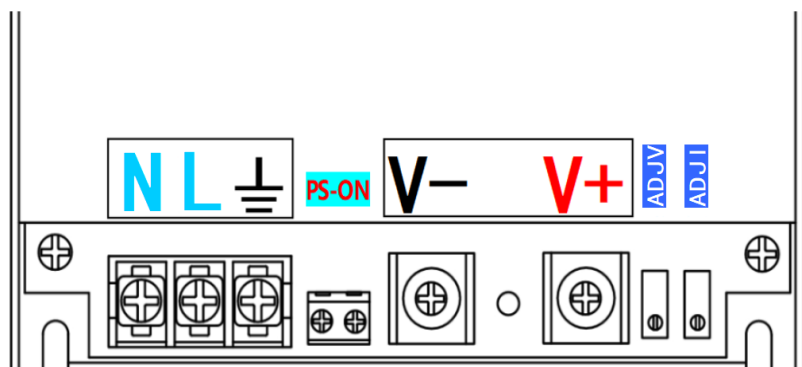


MODEL		ACDC 1000W 24V 42A PFC	ACDC 1000W 36V 28A PFC	ACDC 1000W 42V 24A PFC	ACDC 1000W 48V 21A PFC	ACDC 1000W 60V 16,7 PFC	ACDC 1000W 72V 14A PFC	ACDC 1000W 110V 9,1A PFC	ACDC 1000W 150V 6,6A PFC
Output parameters	DC output voltage	24V	36V	42V	48V	60V	72V	110V	150V
	Rated output current	42A	28A	24A	21A	16.7A	14A	9.1A	6.7A
	Rated output power	1008W	1008W	1008W	1008W	1002W	1008W	1001W	1005W
	Voltage regulation range	17-25V	25-36V	33-42V	33-48V	41-60V	50-74V	74-110V	102-150V
		Note: If the output voltage is lowered, the maximum output current remains unchanged, and the power will decrease							
	Output overvoltage protection value	32V	46V	59V	59V	78V	90V	142V	182V
		Protection method: Turn off the output. Wait for 5 seconds after powering off, then power on again to recover							
	Efficiency (100% load)	88.3%	88.7%	89.3%	89.5%	89.7%	90%	90%	91%
		Note: Efficiency is measured at AC220V input, but when using AC110V input, efficiency will decrease							
	Ripple (full load)	140mv	150mv	150mv	150mv	180mv	200mv	250mv	300mv
		Note: Ripple and noise test method: connect 47UF Electrolytic capacitor and 0.1UF Ceramic capacitor in parallel at the load end (in order to reduce the impact of new external series interference on the test). The Bandwidth throttling of the oscilloscope is limited to 20MHZ, which should be measured from the load end							
	Linear adjustment rate	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$
	Load adjustment rate	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$
	Voltage accuracy	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$
	Start up, rise time	3S, 20ms/230VAC(At full load)							
	hold up time	8ms/230VAC(At full load)							
Input parameters	AC input voltage	AC 110-240V							
	AC input frequency	47-63Hz							
	standby power	11 watts							
	Input current (maximum)	Full load 1000W output, using 220VAC input, input current 5A Full load 1000W output, using 110VAC input, input current 11A							
	power factor	At 100% full load, the power factor PF value is ≥ 0.99 (refer to the PF value curve in the figure below)							
	Surge current	220VAC/40A 110VAC/22A							
Function	PS-ON	PS-on terminal short circuit: no output voltage of power supply PS-on terminal open circuit : The power supply has an output voltage Note: PS-on can control the power output voltage on and off. When the output voltage is turned off, the power supply is in the low power standby state (11watts), and only the auxiliary power supply circuit is working inside. The cooling fan will operate normally, not the power supply of 220V input end will be disconnected.							
	output voltage adjust	The output voltage is adjustable, and the potentiometer V is manually adjusted. See the parameters in the above table for the adjustment range							
	Output current adjust	The output voltage is adjustable, and the potentiometer V is manually adjusted. See the parameters in the above table for the adjustment range							

Protection function	Output overvoltage protection	About 130% of the rated output voltage, the output is turned off and will not recover. To disconnect the input power supply, wait for 5 seconds before re energizing to restore	
	Output short circuit protect	Short time instantaneous short circuit: Close the output and automatically recover after 3 seconds Long lasting short circuit: Turn off the output and attempt to restart every 3 seconds (burp mode)	
	Output overload protection	1. The overload protection mode is constant current limiting mode. When the output is overloaded, the power supply will lock the output current value unchanged and will not output overcurrent. The output voltage will decrease as the load increases 2. When the overload reaches 2.5 times the maximum current value, it is judged as a short circuit, the power is turned off, and it is restarted every 3 seconds (burping mode)	
	Overheat protection	When the internal temperature is too high, activate the overheat protection, turn off the output voltage, and automatically recover after the temperature drops	
	Fan failure protection	The cooling fan does not rotate, or the fan is not detected The power supply has no output voltage	
	Input undervoltage protection	The input AC power supply voltage is lower than 96V, and the power supply has no output and cannot be used	
	EMI	Conducted	CISPR32/EN55032 CLASS A
Radiated		CISPR32/EN55032 CLASS A	
Harmonic Current		EN61000-3-2 CLASS A	
Voltage Flicker		IEC/EN61000-3-3	
EMS	ESD	IEC/EN61000-4-2 Contact ±8KV/Air ±15KV	perf. Criteria A
	Radiated Susceptibility	IEC/EN61000-4-3 10V/m	perf. Criteria A
	EFT/Bures	IEC/EN61000-4-4 ±2KV	perf. Criteria A
	Surge	IEC/EN61000-4-5 line to line ±2KV/line to ground ±4KV	perf. Criteria A
	Conducted Susceptibility	IEC/EN61000-4-6 10Vr.m.s	perf. Criteria A
	Voltage Dips and interruptions	IEC/EN61000-4-11 0%, 70%	perf. Criteria B
	1. The power supply should be considered as a part of the components within the electrical equipment, belonging to accessories, rather than an independent device 2. When conducting radiation testing, the test sample should be placed on a metal plate with a length of 80cm, width of 50cm, and thickness of 2mm for testing. The power supply should cooperate with the load equipment to conduct overall electromagnetic compatibility related tests. 3. When conducting conduction/radiation related tests, pure resistive loads should be used		
Insulation impedance		I/P-O/P,I/P-FG,0/P-FG:100M Ohms /500VDC /25°C/70%RH	
Leakage current		≤2.5MA/AC220V	
Withstand voltage		Input and output: 2500VAC Input and ground: 1500VAC Between output end and housing: 500VAC	
other	Heat dissipation mode	Fan heat dissipation (temperature controlled speed regulation, internal blowing)	
	Cooling fan Noise value	In an indoor environment of around 20-25 decibels, when the two fans rotate at full speed, a measurement of around 35 decibels is made at a distance of 1 meter from the power supply	
	working temperature	-30℃ - 40℃. To reduce power under high temperature environment, refer to the temperature load drop curve below	
	size	Length 268mm * width 131mm * height 41mm	
	weight	1.4kg (excluding package and accessories)	
	Installation hole position	Length spacing: 260mm Width spacing: 120mm Use the installation holes at the four corners of the casing	

Tips

1. Pay attention to ventilation and heat dissipation during use. Do not install the power supply in a fully sealed box. The heat dissipation outlet of the power supply and the fan inlet cannot be blocked by objects.
2. This power supply is only for indoor use, not rainproof, not waterproof, not dustproof, not for outdoor use, not suitable for high temperature environment above 50 °C
3. When the altitude exceeds 2000 meters (6500 feet), the ambient temperature decreases proportionally every 5 °C/1000m.
4. Multiple power sources cannot be used in parallel



L Live wire of AC input

N Zero line of AC input

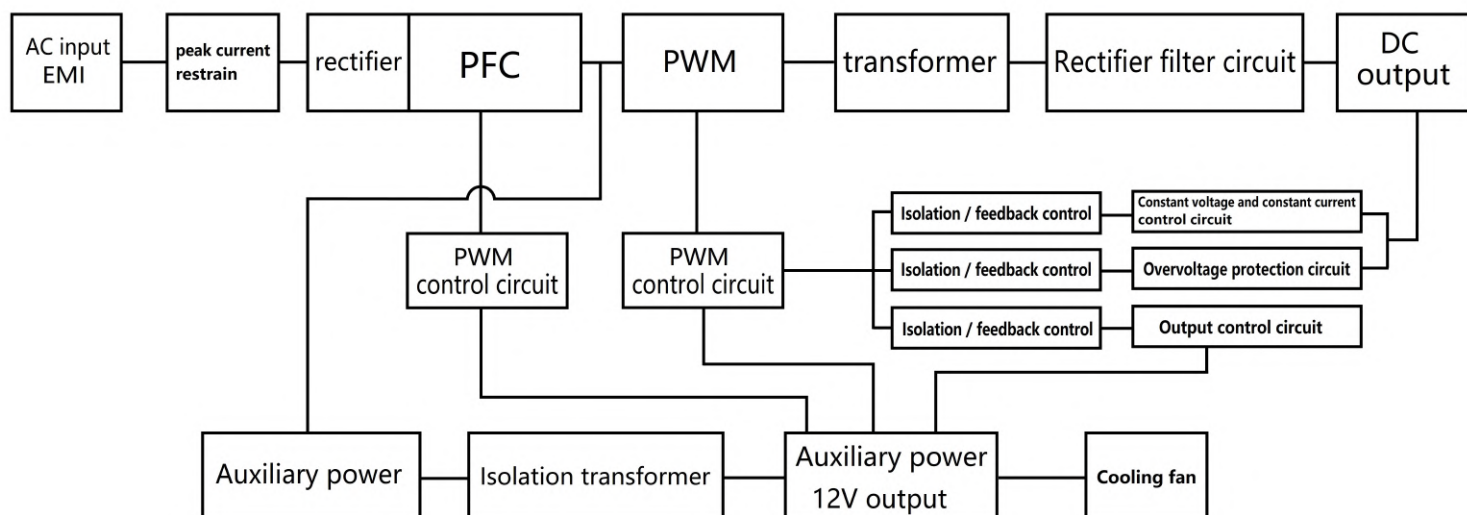
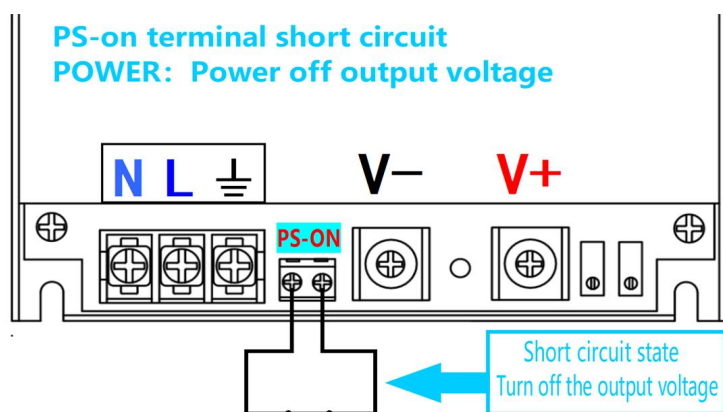
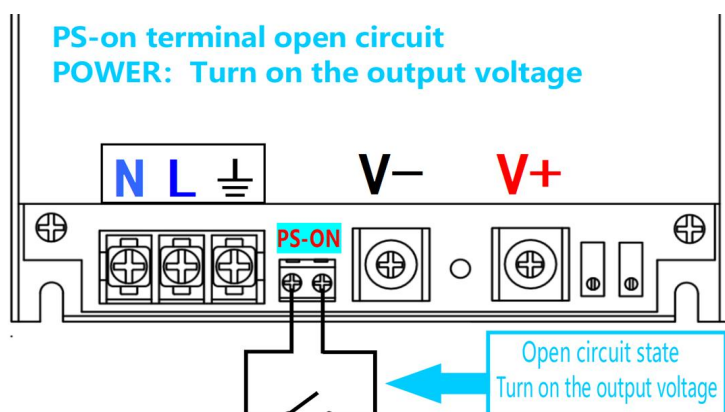
⏏ ground wire

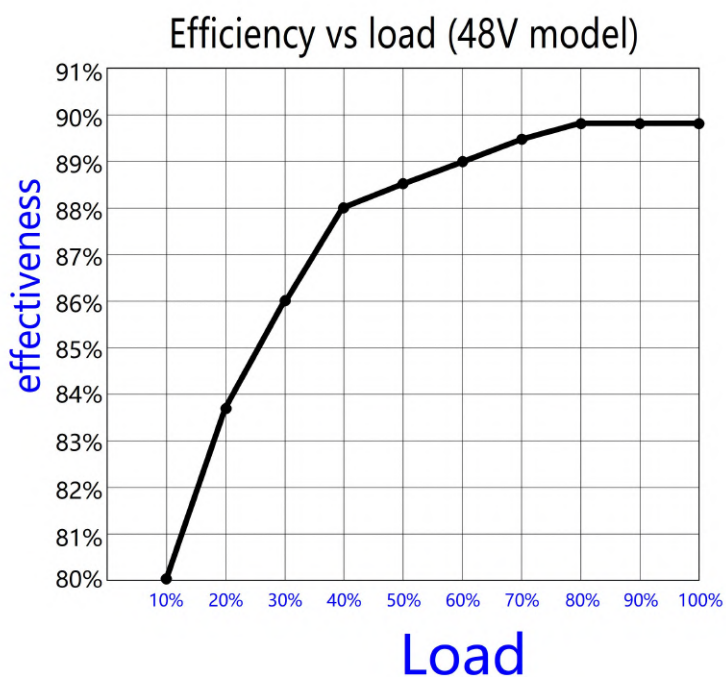
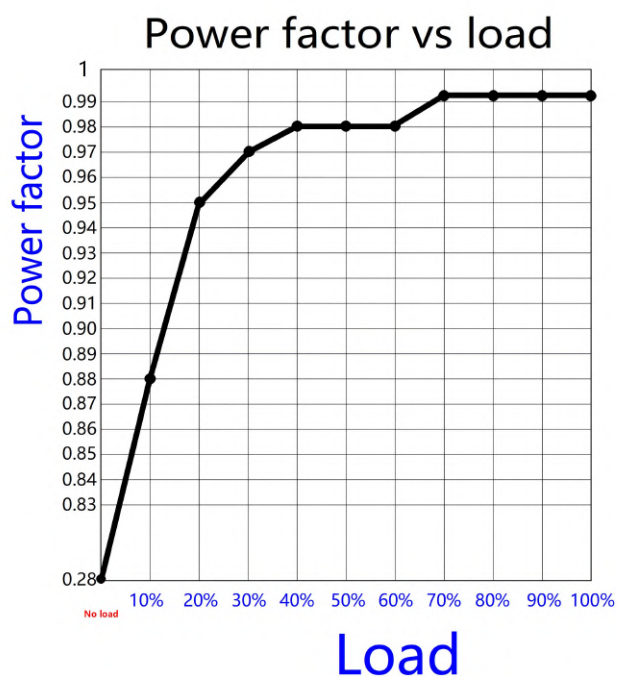
V- Negative pole of DC output voltage

V+ Positive pole of DC output voltage

ADJV Output voltage regulation

ADJI Output current regulation





The above parameters are measured at AC230V input voltage

