

- High Efficiency •Low Interference •Precision Output V Regulation & Filtering
- Turbo Cooling Fan •Soft Operation •LED Indicators

DC TO AC INVERTER OWNER'S MANUAL

Power Inverter and Inverter/Charger



1. Low voltage input model adopt original imported MOS tube. The current is 5.5 times of rated current.
2. Its low voltage input connection adopt high frequency low resistivity electrolytic capacitor. However ordinary capacitor will explode if the temperature become very high.
3. Every transformer has independent fuse protection. If there is a MOS tube break down, then the fuse will break fast. So that will not effect other MOS tube to break.
4. All the protection signal adopt monolithic processing. Circuit is simple and stable.
5. Input and output are isolated to ensure the operation stability.
6. Output circuit adopt convertible circuit. The SPWM signal produced by Single Chip Microcomputer drive the TLP350 optical coupler. Then the optical coupler isolated drive the output through IGBT tube. Adopt negative pressure to cut off IGBT to eliminate Miller effect, so the output is more steady.
7. The whole design adopt patch technology. The circuit is simple and steady.
8. Allow ON/OFF button controlled by remote control switch;
9. LED indicate and alarm notice the protection function start.

Congratulations and thank you for purchasing ours Power Inverter.

Carefully read, understand and comply with all instructions before use.

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Problem: Output voltage low

Possible Causes	Solution
Input voltage too low	Make sure input voltage is within the rated range.
Overload	Reduce the load

Problem: Low voltage alarm

Possible Causes	Solution
Battery no power	Recharge the battery
Battery voltage too low or poor connection	Recharge the battery, check terminals connection or clean terminal with a dry cloth

8. Specifications

Pure sine wave 300/500/600/800					
Model: Pure sine wave -Series	300W	500W	600W	800W	
Size W×D×H(mm)	(180×25)×112*58	(225×25)×157*75	(225×25)×157*75	(225×25)×157*75	
Packing size W×D×H(mm)	265*150*90	335*205*125	335*205*125	335*205*125	
Net weight (kg)	0.8	2.4	2.5	2.6	
Gross weight (kg)	1.2	2.6	2.7	2.9	
Pure sine wave 1000/1200/1500/2000					
Model: Pure sine wave -Series	1000W	1200W	1500W	2000W	
Size W×D×H(mm)	(310×30)×157*75	(310×30)×157*75	(320×33)×216*88	(320×33)×216*88	
Packing size W×D×H(mm)	420*205*125	420*205*125	480*150*285	480*150*285	
Net weight (kg)	2.6	2.9	5.1	5.4	
Gross weight (kg)	3.2	3.5	5.7	6.0	
Pure sine wave 2500/3000/4000/5000					
Model: Pure sine wave -Series	2500W	3000W	4000W	5000W	
Size W×D×H(mm)	(370×33)×216*88	(370×33)×216*88	350*216*150	350*216*150	
Packing size W×D×H(mm)	480*150*285	480*150*285	450*300*250	450*300*250	
Net weight (kg)	5.7	6.0	10	11	
Gross weight (kg)	6.3	6.6	11	12	
Pure sine wave 6000/8000/10000					
Model: Pure sine wave -Series	6000W	8000W	10000W		
Size W×D×H(mm)	400*216*150	400*216*150	450*216*150		
Packing size W×D×H(mm)	500*300*250	500*300*250	550*300*250		
Net weight (kg)	13	15	18		
Gross weight (kg)	14	16	19		
Modified sine wave 300/500/600/800					
Model: Modified sine wave -Series	300W	500W	600W	800W	
Size W×D×H(mm)	(137×25)×112*58	(180×25)×112*58	(180×25)×112*58	(225×25)×157*75	
Packing size W×D×H(mm)	265*150*90	265*150*90	265*150*90	335*205*125	
Net weight (kg)	0.7	0.9	0.9	2.6	
Gross weight (kg)	1.1	1.3	1.3	2.9	

Modified sine wave 1000/1200/1500/2000					
Model: Modified sine wave -Series	1000W	1200W	1500W	2000W	
Size W×D×H(mm)	(225*25)*157*75	(225*25)*157*75	(310*30)*157*75	(260*33)*216*88	
Packing size W×D×H(mm)	335*205*125	335*205*125	420*205*125	480*150*285	
Net weight (kg)	2.6	2.8	2.6	4.5	
Gross weight (kg)	2.9	3.1	3.2	5.1	
Modified sine wave 2500/3000/4000/5000					
Model: Modified sine wave -Series	2500W	3000W	4000W	5000W	
Size W×D×H(mm)	(370*33)*216*88	(370*33)*216*88	350*216*150	350*216*150	
Packing size W×D×H(mm)	480*150*285	480*150*285	450*300*250	450*300*250	
Net weight (kg)	5.7	6.0	10	11	
Gross weight (kg)	6.3	6.6	11	12	
Share Technical parameters					
DC Input Voltage(DC)	12V/24V/48V or 12V/24V(with Remote Control Switch Unit)				
Output Input Voltage(AC)	100V~120V or 220V~240V(optional)				
Conversion Efficiency	>90%				
Frequency	50Hz or 60Hz				
Waveform	Pure Sine Wave(YPS-Series)				
Regulation	Vrms <±5%				
Total Harmonic Distortion	THD <3%(YPS-Series)				
USB Output	DC 5V±5% 500mA				
Socket Types	Universal, Australian, British, Europe types(Optional)				
Protection	Output overload protection, Output short-circuit protection, Battery reverse polarity protection, Input high-voltage protection ,Input low-voltage protections, Overheat protection;				
Intelligent Design Heat Auto Control	Fan Start : 42℃±3 Fan Stop : 38℃±3				
Indicator	High Temperature Shut Down : 63℃±3 , Restart Output : 55℃±3				
	Inverter: Green LED ; Fault: Red LED ; Over Temperature: Yellow LED				
Charger Specification					
AC Input Voltage	AC 100V- 120V± 10%, AC 220V-240V ± 10%.				
DC Charging Voltage	12V	24V	48V		
DC Charging Current	10A/20A/30A	5A/10A/15A	3A/5A/8A		
Remark: 1. Dimension: L*W*H 2.Charger/USB are optional 3.Special order is accepted.					

Note: *The specifications are subject to change without prior notice for further improvement of products.

9. Maintenance

To keep your inverter operating properly, there is very little maintenance required. You should clean the exterior periodically with a dry cloth to prevent accumulation of dust and dirt. At the same time, tighten the screws on the DC input terminals.