

# Pure Sine Wave Inverter

300W - 3500W

The Pure Sine Wave Inverter is desirable long backup power solution for home and office appliances. It is not only an inverter but also contains a powerful intelligent charger. It provides pure sine wave power to all kinds of loads. And it can be used as UPS for computers as well.

## FEATURES

- DSP digital control technology
- Pure sine wave output
- Suitable for all kinds of loads, such as resistive, inductive and rectified loads and motors
- Use of pulse by pulse technology, improving load shock ability
- Charge current Max.60 A. Settable charge current and charge voltage on front panel
- Settable no-load shutdown and energy saving mode
- Short circuit, overload and low battery protection
- Intelligent long backup time up to 10 hrs (based on battery bank and loads)
- Compatible with generators, and matching of inverter and generator is settable
- Unique functions: optional built-in MPPT module enables the inverter to work as an off-grid solar inverter, optional DC module enables the inverter to apply to communications router, switch, mobile charging, DC fans and illumination



## SPECIFICATIONS

MODEL	300W	600W	1000W	1600W	2500W	3500W
Nominal input voltage	12V			24V		
Nominal input voltage	10 - 15V			20 - 30V		
AC INPUT						
Bypass voltage	0 - 264Vac for 220/230/240Vac, 0 - 132Vac for 100/110/115/120Vac					
AC voltage	150 - 282Vac for 220Vac, 156 - 294Vac for 230Vac, 163 - 307Vac for 240Vac, 68 - 128Vac for 100Vac, 75 - 141Vac for 110Vac, 79 - 148Vac for 115Vac, 82 - 154Vac for 120Vac					
Frequency	50/60Hz (auto-sensing & settable: 5% - 15%, default 15%), 42.5- 57.5Hz for 50Hz, 51- 69Hz for 60Hz					
Input voltage of generator	99 - 282Vac for 220Vac, 104 - 294Vac for 230Vac, 108 - 307Vac for 240Vac, 45 - 128Vac for 100Vac, 50 - 141Vac for 110Vac, 52 - 148Vac for 115Vac, 54 - 154Vac for 120Vac					
Input frequency of generator	40 - 70Hz					
Input power limitation	Rated power 10% - 150%, regulating step 10%, default 120%					
OUTPUT						
DC mode output voltage	220/230/240Vac $\pm$ 5% or 100/110/115/120Vac $\pm$ 5% (settable)					
AC mode output voltage	174 - 242Vac for 220Vac, 182 ~ 253Vac for 230Vac, 190 ~ 264Vac for 240Vac, 79 - 109Vac for 100Vac, 87 - 121Vac for 110Vac, 93 - 125Vac for 115Vac, 95 - 133Vac for 120Vac					

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Nominal output frequency	50/60Hz ± 0.3Hz (auto-sensing & settable)					
Output waveform	Pure sine wave					
Output power	300W	600W	1000W	1600W	2500W	3500W
Efficiency	Max. 95% (mains mode); Max. 80% (inverter mode)					
ECO mode	Settable, load < 3%, enter in 80s					
No-load shutdown Transfer	Settable, time can be set (1 - 99min), load can be set ( 3% - 50%)					
time	10ms					
Power factor	1.0					
THDv	< 5% (linear load)					
Inductive load	Yes					
Motor load	Yes					
Rectifier load	Yes					
Overload	Mains mode: 110% for 120s, 125% for 60s, 150% for 10s (switch to bypass) Inverter mode: 110% for 60s, 125% for 10s, 150% for 10s (shut down)					
BATTERIES						
Charging current (selectable)	Default 10A	Default 20A, regulating step 1A (<10A) / 5A(>10A)				
	Max. 15A Max.	30A Max.	40A Max.	50A Max.	40A Max.	60A Max
Equalizing charge voltage	Single battery 14.4Vdc (default), 13.6 - 15Vdc adjustable					
Floating charge voltage	Single battery 13.7Vdc (default), 13.2 - 14.6Vdc adjustable					
Charge mode	3stage charge mode					
DOD	Single battery 10.8Vdc (default), 9.6 - 13Vdc settable					
EOD	Single battery 10.2Vdc (default), 9.6 - 11.5Vdc adjustable					
Reverse warning	Buzzer					
MPPT MODULES(OPTIONAL)						
Model	10A/20A/30A/40A I					
Max. PV input voltage (Voc)	40V 60V I					
PV optimum operating voltage (Vmp)	18V ~ 32V		29V ~ 48V I			
Max. PV power	120W / 240W / 360W / 480W		240W / 480W / 720W / 960W I			
DC MODULES (OPTIONAL)						
Model	6V (2A), 9V/12V (1A), 15V/24V (1A), 12V/24V (10A)					
OTHERS						
Protections	Overload - short-circuit - overvoltage - undervoltage - overcharge - overtemperature - excessive low battery					
Human-machine interface	LCD & BUZZER					
Operating temperature	0°C - 40°Cx					
Operating humidity	Relative humidity. 93%					
Net weight (kg)	8.0/8.5/7.410	9/11.4/1114.0	14.6	18.0/18.53	236	