

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 word 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 ± 5% or 100/110/115/120Vac ± 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					

Pure Sine Wave Inverter

300W - 3500W

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	Settable, time can be set (1 - 99min), load can be set (3% - 50%)					
Transfer 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
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				/	
Max. PV input voltage (Voe)	40V		60V		/	
PV optimum operating voltage (Vmp)	18V ~ 32V		29V ~ 48V		/	
Max. PV power	120W /240W /360W /480W		240W / 480W / 720W / 960W		/	
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)	8.0/8.5/7.4	10.9/11.4/11	14.0/14.6	18.0/18.5	32	36

Gross weight (kg)	9.0/9.5/8.4	11.9/12.4/12	15.0/15.6	19.0/19.5	34	38
Dimensions (W x D x H) (mm)	280x 258x 120 (w/o option) 293x 280x 160 (w/option) 400x 210x 127 Wall mounted		293 X 280 X 160		302 X 479 X 209	
Packaged dimensions (W x D x H) (mm)	330x 352x 200 (w/o option) 370x 355x 235 (w/option)		370 X 355 X 235		353 X 582 X 287	