

# Pure Sine Wave Inverter

300 W ~ 500 W



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

- Tower design
- 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. 15A
- Settable no-load shutdown and energy saving mode
- Short circuit, overload and low battery protection
- Intelligent long backup time up to 10h (based on battery bank and loads)
- Compatible with generators, and matching of inverter and generator is settable.
- Usable as off-grid solar inverter if combined with EAST charge controller



## Specifications

MODEL	300W	500W
<b>DC INPUT</b>		
Nominal input voltage	12 V	
DC input voltage range	10 ~ 15 V	
<b>AC INPUT</b>		
Bypass voltage	0 ~ 264 Vac for 220 / 230 / 240 Vac;	
AC voltage	150 ~ 282 Vac for 220 Vac, 156 ~ 294 Vac for 230 Vac, 163 ~ 307 Vac for 240 Vac	
Nominal input frequency	50 / 60 Hz (auto-sensing), 42.5 ~ 57.5 Hz for 50 Hz, 51 ~ 69 Hz for 60 Hz	
<b>OUTPUT</b>		
DC mode output voltage	220 / 230 / 240 Vac ± 5%	
AC mode output voltage	220 / 230 / 240Vac ±5% or 100 / 110 / 115 / 120Vac ±5%	
Nominal output frequency	50 / 60 Hz ± 0.3 (auto-sensing & settable)	
Output waveform	Pure sine wave	
Output power	300 W	500 W
Efficiency	Max. 95% (mains mode); Max. 80% (inverter mode)	
No-load shutdown	Optional, pre-set, time can be set (1 ~ 99 min), load can be set (3% ~ 50%)	
Transfer time	≤ 10 ms	
Power factor	1	
THD	< 5% (linear load)	
Inductive load	Yes	
Motor load	Yes	
Rectifier load	Yes	
Overload capability	Mains mode: 110% for 120 s, 125% for 60 s, 150% for 10 s (switch to bypass) Inverter mode: 110% for 60 s 125% for 10 s 150% for 10 s (shut down)	
<b>BATTERIES</b>		
Charging current	5 A (Optional 10A / 15A)	10 A (Optional 5A / 15A)
Equalizing charge voltage	Single battery 14.4 Vdc (default), 13.6 ~ 15 Vdc adjustable	
Floating charge voltage	Single battery 13.7 Vdc (default), 13.2 ~ 14.6 Vdc adjustable	
Charge mode	3 stage charge mode	
EOD	Single battery 10.2 Vdc (default), 9.6 ~ 11.5 Vdc adjustable	
Reverse warning	Buzzer	
<b>OTHERS</b>		
Human machine interface	LCD & BUZZER	
Operating temperature	0°C ~ 40°C	
Operating humidity	5% ~ 95% RH	
Forced air cooling	Variable speed fans	
Net weight (kg)	5.3	7.5
Gross weight (kg)	5.8	8
Dimensions (W × D × H) (mm)	281 × 132 × 176	
Packaged dimensions (W × D × H) (mm)	355 × 195 × 251	

•All specifications are subject to change without notice.