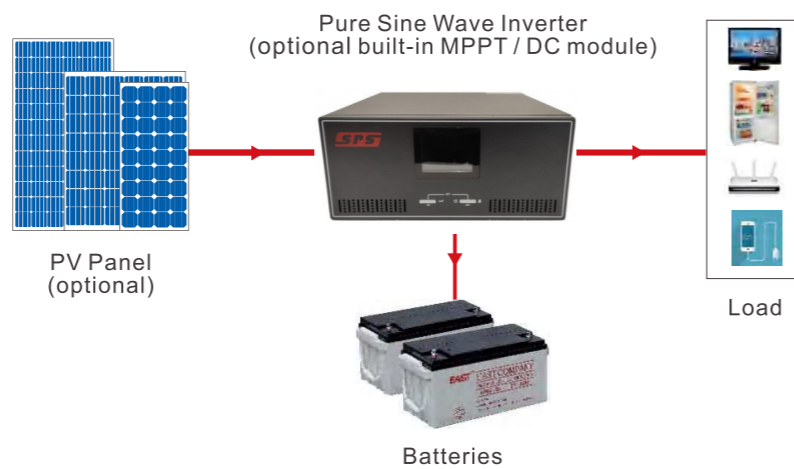


Pure Sine Wave Inverter

300 W ~ 3500 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

- 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 off-grid solar inverter, optional DC module enables the inverter to apply to communications, router, switch, mobile charging, DC fans and illumination



Specifications

| MODEL | 300 W | 600 W | 1000 W | 1600 W | 2500 W | 3500 W |
|--------------------------------------|---|---|-----------------|-------------------------------|-----------------|-----------|
| DC INPUT | | | | | | |
| Nominal input voltage | 12 V | | | 24 V | | |
| DC input voltage range | 10 ~ 15 V | | | 20 ~ 30 V | | |
| AC INPUT | | | | | | |
| Bypass voltage | 0 ~ 264 Vac for 220 / 230 / 240 Vac, 0 ~ 132 Vac for 100 / 110 / 115 / 120 Vac | | | | | |
| AC voltage | 150 ~ 282 Vac for 220 Vac, 156 ~ 294 Vac for 230 Vac, 163 ~ 307 Vac for 240 Vac, 68 ~ 128 Vac for 100 Vac, 75 ~ 141 Vac for 110 Vac, 79 ~ 148 Vac for 115 Vac, 82 ~ 154 Vac for 120 Vac | | | | | |
| Frequency | 50 / 60 Hz (auto-sensing & settable: 5% ~ 15%, default 15%), 42.5 ~ 57.5 Hz for 50 Hz, 51 ~ 69 Hz for 60 Hz | | | | | |
| Input voltage of generator | 99 ~ 282 Vac for 220 Vac, 104 ~ 294 Vac for 230 Vac, 108 ~ 307 Vac for 240 Vac, 45 ~ 128 Vac for 100 Vac, 50 ~ 141 Vac for 110 Vac, 52 ~ 148 Vac for 115 Vac, 54 ~ 154 Vac for 120 Vac | | | | | |
| Input frequency of generator | 40 ~ 70 Hz | | | | | |
| Input power limitation | Rated power 10% ~ 150%, regulating step 10%, default 120% | | | | | |
| OUTPUT | | | | | | |
| DC mode output voltage | 220 / 230 / 240 Vac ± 5% or 100 / 110 / 115 / 120 Vac ± 5% (settable) | | | | | |
| AC mode output voltage | 174 ~ 242 Vac for 220 Vac, 182 ~ 253 Vac for 230 Vac, 190 ~ 264 Vac for 240 Vac, 79 ~ 109 Vac for 100 Vac, 87 ~ 121 Vac for 110 Vac, 93 ~ 125 Vac for 115 Vac, 95 ~ 133 Vac for 120 Vac | | | | | |
| Nominal output frequency | 50 / 60 Hz ± 0.3 Hz (auto-sensing & settable) | | | | | |
| Output waveform | Pure sine wave | | | | | |
| Output power | 300 W | 600 W | 1000 W | 1600 W | 2500 W | 3500 W |
| Efficiency | Max. 95% (mains mode); Max. 80% (inverter mode) | | | | | |
| ECO mode | Settable, load < 3%, enter in 80 s | | | | | |
| No-load shutdown | Settable, time can be set (1 ~ 99 min), load can be set (3% ~ 50%) | | | | | |
| Transfer time | ≤ 10 ms | | | ≤ 15 ms | | |
| Power factor | 1.0 | | | | | |
| THDv | < 5% (linear load) | | | | | |
| Inductive load | Yes | | | | | |
| Motor load | Yes | | | | | |
| Rectifier load | Yes | | | | | |
| Overload | 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) | | | | | |
| BATTERIES | | | | | | |
| Charging current (selectable) | Default 10 A | Default 20 A, regulating step 1 A (< 10 A) / 5 A (> 10 A) | | | | |
| | Max. 15 A | Max. 30 A | Max. 40 A | Max. 40 A | Max. 50 A | Max. 60 A |
| 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 | | | | | |
| DOD | Single battery 10.8 Vdc (default), 9.6 ~ 13 Vdc settable | | | | | |
| EOD | Single battery 10.2 Vdc (default), 9.6 ~ 11.5 Vdc adjustable | | | | | |
| Reverse warning | Buzzer | | | | | |
| MPPT MODULES (OPTIONAL) | | | | | | |
| Model | 10 A / 20 A / 30 A / 40 A | | | / | | |
| Max. PV input voltage (Voc) | 40 V | | | 60 V | | |
| PV optimum operating voltage (Vmp) | 18 V ~ 32 V | | | 29 V ~ 48 V | | |
| Max. PV power | 120 W / 240 W / 360 W / 480 W | | | 240 W / 480 W / 720 W / 960 W | | |
| DC MODULES (OPTIONAL) | | | | | | |
| Model | 5 V (2A), 9 V / 12 V (1A), 15 V / 24 V (1A), 12 V / 24 V (10A) | | | | | |
| OTHERS | | | | | | |
| Protections | Overload, short-circuit, overvoltage, undervoltage, overcharge, overtemperature, excessive low battery | | | | | |
| Human-machine interface | LCD & BUZZER | | | | | |
| Operating temperature | 0°C ~ 40°C | | | | | |
| Operating humidity | Relative humidity ≤ 93% | | | | | |
| Net weight (kg) | 6.92 / 8.5 / 7.4 | 9.08 / 11.4 / 11 | 14.0 / 14.6 | 18.0 / 18.5 | 32.0 | 36.0 |
| Gross weight (kg) | 7.68 / 9.5 / 8.4 | 9.84 / 12.4 / 12 | 15.0 / 15.6 | 19.0 / 19.5 | 34.0 | 38.0 |
| Dimensions (W × D × H) (mm) | 265 × 258 × 114 (w/o option) 293 × 280 × 160 (w/o option) 400 × 210 × 127 (Wall mounted) | | 293 × 280 × 160 | | 302 × 479 × 209 | |
| Packaged dimensions (W × D × H) (mm) | 362 × 330 × 188 (w/o option) 370 × 355 × 235 (w/o option) 490 × 290 × 195 (Wall mounted) | | 370 × 355 × 235 | | 353 × 582 × 287 | |

- All specifications are subject to change without notice.
- Custom-made specifications are acceptable.