

Hybrid Inverter

5KW 7.6KW 8KW
Split Phase/Two-thirds Phase/Single Phase Inverter

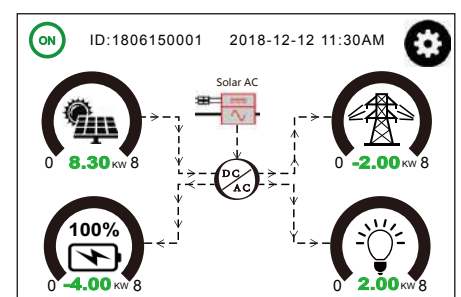


Inverter Features

- ◆ AC Coupled
 - Update existed solar on-grid system to hybrid
- ◆ Smart Load
 - Use Gen input as crucial load output
- ◆ BMS
 - Compatible with PYLONTECH, LG, BYD etc brand battery
- ◆ Multiple Output
 - 120V/240V Split phase, 230V Single phase, 120V/208V Two-thirds phase
- ◆ Protections
 - PV rapid shutdown control, PV Arc Fault detection, PV input lightning protection, Multiple inverters in parallel
- ◆ Multiple Working Modes
 - Grid Tied, Hybrid or OFF Grid. Simultaneously manages power to/from Solar, Battery, Grid, Load and Generator
- ◆ Additional Feature
 - UPS time less than 5ms. Six stages time of use setting. Charge and discharge up to 190A 7.6/8KW (120A 5KW)
 - Load or home power first with zero export to grid.
- ◆ Support multiple parallel

Colour Touchscreen Display

Touchscreen interface as easy to understand as your phone. Simultaneously manages power to/from Solar Panels, Batteries, Grid, Load, and Generator.



Technical Specifications

| Model | SUN-5K-SG01LP1 -US | SUN-7.6K-SG01LP1 -US/EU | SUN-8K-SG01LP1 -US/EU |
|---|---|----------------------------|--------------------------|
| Battery Input Data | | | |
| Battery Type | Lead-acid or Li-Ion | | |
| Battery Voltage Range (V) | 40~60V | | |
| Max.Charging Current (A) | 120A | 190A | 190A |
| Max.Discharging Current (A) | 120A | 190A | 190A |
| Charging Curve | 3 Stages/Equalization | | |
| External Temperature Sensor | Optional | | |
| Charging Strategy for Li-Ion Battery | Self-adaption to BMS | | |
| PV String Input Data | | | |
| Max.DC Input Power (W) | 6500W | 9880W | 10400W |
| PV Input Voltage (V) | 370V(100V~500V) | | |
| MPPT Range (V) | 125V-425V | | |
| Start-up Voltage (V) | 125V | | |
| PV Input Current (A) | 11A+11A | 18A+18A | 18A+18A |
| No.of MPPT Trackers | 2 | | |
| No.of Strings Per MPPT Tracker | 1+1 | 2+2 | 2+2 |
| AC Output Data | | | |
| Rated AC Output and UPS Power (W) | 5000W | 7600W | 8000W |
| Max AC Output Power (W) | 5500W | 8360W | 8800W |
| Peak Power(off grid) | 2 times of rated power, 10 S | | |
| AC Output Rated Current(A) | 20.8A | 31.7A/33A | 33.4A/35A |
| Max.AC Current(A) | 24A | 36.4A/38A | 38.3A/40A |
| Max Continuous AC Passthrough(A) | 35A | 50A | 50A |
| Output Frequency and Voltage | 50/60Hz; 120Vac&240Vac(split phase), 208Vac(2/3 phase),230Vac(single phase) | | |
| Grid Type | Split phase 、 2/3 phase 、 Single Phase | | |
| Current Harmonic Distortion | THD<3%(Linear load<1.5%) | | |
| Efficiency | | | |
| Max.Efficiency | 97.60% | | |
| Euro Efficiency | 97.00% | | |
| MPPT Efficiency | 99.90% | | |
| Protection | | | |
| PV Arc Fault Detection | Integrated (Except European Type) | | |
| PV Input Lightning Protection | Integrated | | |
| Anti-islanding Protection | Integrated | | |
| PV String Input Reverse Polarity Protection | Integrated | | |
| Insulation Resistor Detection | Integrated | | |
| Residual Current Monitoring Unit | Integrated | | |
| Output Over Current Protection | Integrated | | |
| Output Shorted Protection | Integrated | | |
| Output Over Voltage Protection | Integrated | | |
| Certifications and Standards | | | |
| Grid Regulation | UL1741,IIEEE1547,RULE21,VDE 0126,AS4777,NRS2017,G98,G99 | | |
| Safety Regulation | IEC62109-1, IEC62109-2 | | |
| EMC | EN61000-6-1, EN61000-6-3, FCC 15 class B | | |
| General Data | | | |
| Operating Temperature Range (°C) | -25~60 °C , >45 °C Derating | | |
| Cooling | Fan | | |
| Noise (dB) | <30 | | |
| Communication with BMS | RS485; CAN | | |
| Weight (kg) | 32KG | | |
| Size (Length*Width*Height mm) | 680×420×233mm | | |
| Protection Degree | IP65 | | |
| Installation Style | Wall-mounted | | |
| Warranty | 5 years | | |