

Hybrid Inverter

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

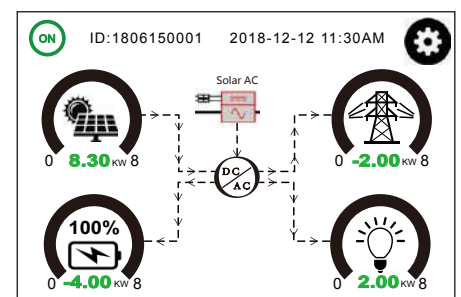


Inverter Features

- ◆ 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		