

BESS CABINET SYSTEM COMPONENTS

Hybrid Inverter

SUN 5000-12000 SGO4LP3-EU

5-12kW

Three Phase

UPS

- Support multiple batteries parallel.
- DC couple AC couple to retrofit existing solar system.
- Max. 16 pieces parallel for on-grid and off-grid operation.
- Max. charging/discharging current of 240A.
- 48V low voltage battery, transformer isolation design.



Higher Yields

Improve self-consumption up to 80% / Reducing your electricity bill DC/AC ratio up to 12/Completely suitable for double-side PV modular Two MPPT design.



User Friendly

LCD Touch screen and buttons / Easy operation Compatible with a lithium-ion battery and lead-acid battery / Web browser and mobile App monitoring supported.

12kw Solar Hybrid
Storage Inverter
Work with 48V Low
Voltage Lithium
Battery



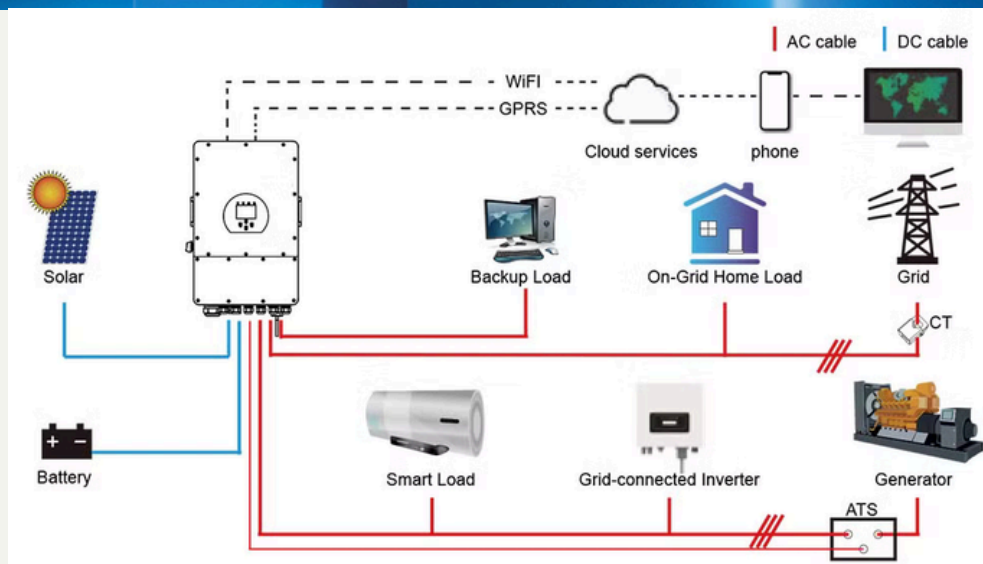
Reliable

PPV lightning protection / Anti-islanding protection / Leakage current protection / IP65 protection / Automatically switch from Grid-Tied to Off-Grid mode within 5ms.



Smart

Programmable charging and discharging schedule / Both wind turbines and solar panels can be connected as DC input power / 16 units can be paralleled for higher system power.





Hybrid Inverter SUN 5000-12000 SGO4LP3-EU

Model	SUN-8K-SG04LP3	SUN-10K-SG04LP3	SUN-12K-SG04LP3
Battery Input Data			
Battery Type	Lead-acid or Li-Ion		
Battery Voltage Range (V)	40~60V		
Max. Charging Current (A)	190A	210A	240A
Max. Discharging Current (A)	190A	210A	240A
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)	10400W	13000W	15600W
PV Input Voltage (V)	550V (150V~800V)		
MPPT Range (V)	200V-650V		
Start-up Voltage (V)	160V		
PV Input Current (A)	13A+13A	26A+13A	26A+13A
No.of MPPT Trackers	2		
No.of MPPT Trackers	1+1	2+1	2+1

Model	SUN-8K-SG04LP3	SUN-10K-SG04LP3	SUN-12K-SG04LP3
AC Output Data			
Rated AC Output and UPS Power (W)	8000W	10000W	12000W
Max. AC Output Power (W)	8800W	11000W	12000W
Peak Power (off grid)	2 times of rated power, 10 S		
AC Output Rated Current (A)	12A	15A	18A
Max. AC Current (A)	18A	23A	27A
Max. Continuous AC Passthrough (A)	50A		
Output Frequency and Voltage	50/60Hz; 230/400Vac (Three phase)		
Grid Type	Current Harmonic Distortion		
Current Harmonic Distortion	THD<3% (Linear load<1.5%)		
Efficiency			
Max. Efficiency	97.60%		
Euro Efficiency	97.00%		
MPPT Efficiency	99.90%		



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Model	SUN-8K-SG04LP3	SUN-10K-SG04LP3	SUN-12K-SG04LP3
Protection			
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		
Surge protection	DC Type II / AC Type II		
Certifications and Standards			
Grid Regulation	IEC61727, IEC62116, IEC60068, IEC61683, NRS 097-2-1		
Safety EMC / Standard	IEC62109-1/-2, IEC61000-6-1, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12		

Model	SUN-8K-SGO4LP3	SUN-10K-SGO4LP3	SUN-12K-SGO4LP3
General Data			
Operating Temperature Range (°C)	-25~60°C , >45°C Derating		
Cooling	Smart cooling		
Noise (dB)	<30 dB		
Communication with BMS	Communication with BMS		
Weight (kg)	36.8		
Size (mm)	422W×658H×281D		
Protection Degree	IP65		
Installation Style	Wall-mounted		
Warranty	5 years		