



# Three Phase Hybrid Inverter

## SUN- 8 / 10 / 12 K-SG04LP3



- 48** 48V low voltage battery, transformer isolation design
- 6** 6 time periods for battery charging/discharging
- 240** Max. charging/discharging current of 240A

- 100%** 100% unbalanced output, each phase  
Max. output up to 50% rated power
- 16** Frequency droop control, Max.16pcs parallel
-  DC couple and AC couple to retrofit existing solar system
-  Support storing energy from diesel generator

Model	SUN-8K-SG04LP3	SUN-10K-SG04LP3	SUN-12K-SG04LP3
<b>Battery Input Data</b>			
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	
<b>PV String Input Data</b>			
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)	12.5A+12.5A	25A+12.5A	25A+12.5A
No. of MPPT Trackers		2	
No. of Strings Per MPPT Tracker	1+1	2+1	2+1
<b>AC Output Data</b>			
Rated AC Output and UPS Power (W)	8000W	10000W	12000W
Max. AC Output Power (W)	8800W	11000W	13200W
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		Three Phase	
Current Harmonic Distortion		THD<3% (Linear load<1.5%)	
<b>Efficiency</b>			
Max. Efficiency		97.60%	
Euro Efficiency		97.00%	
MPPT Efficiency		99.90%	
<b>Protection</b>			
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	
<b>Certifications and Standards</b>			
Grid Regulation		VDE 0126, AS4777, NRS2017, G98, G99, IEC61683, IEC62116, IEC61727	
Safety Regulation		IEC62109-1, IEC62109-2	
EMC		EN61000-6-1, EN61000-6-3, FCC 15 class B	
<b>General Data</b>			
Operating Temperature Range (°C)		-25~60°C, >45°C Derating	
Cooling		Smart cooling	
Noise (dB)		<30 dB	
Communication with BMS		RS485; CAN	
Weight (kg)		36.8	
Size (mm)		422Wx658Hx281D	
Protection Degree		IP65	
Installation Style		Wall-mounted	
Warranty		5 years	