

Three Phase Hybrid Inverter

SUN- 8 / 10 / 12 K-SG04LP3



- 100%** 100% unbalanced output, each phase
Max. output up to 50% rated power
- 48** 48V low voltage battery, transformer isolation design
- 6** 6 time periods for battery charging/discharging
- 240** Max. charging/discharging current of 240A
- 16** Frequency droop control, Max.16pcs parallel
-  DC couple and AC couple to retrofit existing solar system
-  Support storing energy from diesel generator

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Clean Power For You

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)	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		
AC Output Data						
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%)					
Efficiency						
Max. Efficiency	97.60%					
Euro Efficiency	97.00%					
MPPT Efficiency	99.90%					
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	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					
General Data						
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)	422W×658H×281D					
Protection Degree	IP65					
Installation Style	Wall-mounted					
Warranty	5 years					