Three Phase Hybrid Inverter

SUN-5/6/8/10/12 K-SG04LP3-EU





Clean Power For You

- 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

Model	SUN-5K- SG04LP3-EU	SUN-6K- SG04LP3-EU	SUN-8K- SG04LP3-EU	SUN-10K- SG04LP3-EU	SUN-12K- SG04LP3-EU	
Battery Input Data						
Battery Type	Lead-acid or Li-lon					
Battery Voltage Range (V)			40~60			
Max. Charging Current (A)	120	150	190	210	240	
Max. Discharging Current (A)	120	150	190	210	240	
Charging Curve	3 Stages / Equalization					
External Temperature Sensor	Yes					
Charging Strategy for Li-lon Battery	Self-adaption to BMS					
PV String Input Data						
Max. DC Input Power (W)	6500	7800	10400	13000	15600	
Rated PV Input Voltage (V)	550 (160~800)					
Start-up Voltage (V)	160					
MPPT Range (V)	200-650					
Full Load DC Voltage Range (V)		350-650				
PV Input Current (A)		13+13 26+13				
Max. PV ISC (A)	17+17			34+17		
Number of MPPT / Strings per MPPT	2/1+1			2/2+1		
AC Output Data		27 !		2/		
Rated AC Output and UPS Power (W)	5000	6000	8000	10000	12000	
Max. AC Output Power (W)	5500	6600	8800	11000	13200	
Peak Power (off grid)	3300	2 times of rated power, 10 S				
AC Output Rated Current (A)	76	7.6 9.1 12.1 15.2			18.2	
Max. AC Current (A)	11.4	13.6	18.2	22.7	27.3	
Max. Continuous AC Passthrough (A)	11.1	15.0	45	22.7	27.5	
Power Factor	0.8 leading to 0.8 lagging					
Output Frequency and Voltage	50/60Hz; 220/380, 230/400Vac					
Grid Type	Three Phase					
Current Harmonic Distortion	THD<3% (Linear load<1.5%)					
Efficiency		1111	D 1370 (Elifical load 11.	370)		
Max. Efficiency			97.60%			
Euro Efficiency	97.00%					
MPPT Efficiency	99.90%					
Euro EfficiencyBattery to AC	99.50%					
Protection			93.3%			
			Intograted			
PV Input Lightning Protection	Integrated					
Anti-islanding Protection	Integrated					
PV String Input Reverse Polarity Protection Insulation Resistor Detection	Integrated					
	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 I			
Certifications and Standards Grid Regulation	EN50549, AS4777.2, VDE0126, IEC61727, VDEN4105, G99, NBT32004, CEI0-21, NRS097, NBR16149/16150, RD1699					
Safety EMC / Standard	IEC62109-1/-2, EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4					
General Data	IL	COZ 107 1/ Z, EINOTOUC			· ·	
Operating Temperature Range (°C)		2	5~60°C, >45°C Derati	ina		
Cooling	Smart cooling					
Noise (dB)	<45 dB					
Communication with BMS	<45 ab RS485; CAN					
Weight (kg)	34.5					
Size (mm)	422W×702H×281D IP65					
Protection Degree						
Installation Style	Wall-mounted					
Warranty	5 years					

This Inverter is designed for photovoltaic systems, which is equipped with photovoltaic and battery inputs and is capable of islanding operation.