

Three Phase Hybrid Inverter

SUN-6/8/10/12K-GS04LP3-EU/AU



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-6K-GS04LP3-EU/AU	SUN-8K-GS04LP3-EU/AU	SUN-10K-GS04LP3-EU/AU	SUN-12K-GS04LP3-EU/AU
Battery Input Data				
Battery Type	Lead-acid or Li-Ion			
Battery Voltage Range (V)	40~60V			
Max. Charging Current (A)	150A	190A	210A	240A
Max. Discharging Current (A)	150A	190A	210A	240A
Charging Curve	3 Stages / Equalization			
External Temperature Sensor	Yes			
Charging Strategy for Li-Ion Battery	Self-adaption to BMS			
PV String Input Data				
Max. DC Input Power (W)	7800W	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	13A+13A	26A+13A	26A+13A
No. of MPPT Trackers	2			
No. of Strings Per MPPT Tracker	1+1	1+1	2+1	2+1
AC Output Data				
Rated AC Output and UPS Power (W)	6000W	8000W	10000W	12000W
Max. AC Output Power (W)	6600W	8800W	11000W	13200W
Peak Power (off grid)	2 times of rated power, 10 S			
AC Output Rated Current (A)	9A	12A	15A	18A
Max. AC Current (A)	13.5A	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	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			
General Data				
Operating Temperature Range(°C)	-25~60°C, >45°C Derating			
Cooling	Smart cooling			
Noise (dB)	<45 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			