



Hybrid Inverter

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



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

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Stock Code: 605117.SH

| 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-Ion | | | | |
| Battery Voltage Range (V) | 40~60 | | | | |
| Max. Charging Current (A) | 120 | 150 | 190 | 210 | 240 |
| Max. Discharging Current (A) | 120 | 150 | 190 | 210 | 240 |
| External Temperature Sensor | Yes | | | | |
| Charging Curve | 3 Stages / Equalization | | | | |
| Charging Strategy for Li-Ion 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 Voltage 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 | | | | | |
| Rated AC Output and UPS Power (W) | 5000 | 6000 | 8000 | 10000 | 12000 |
| Max. AC Output Power (W) | 5500 | 6600 | 8800 | 11000 | 13200 |
| AC Output Rated Current (A) | 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) | 45 | | | | |
| Peak Power (off grid) | 2 time of rated power, 10 S | | | | |
| Power Factor | 0.8 leading to 0.8 lagging | | | | |
| Output Frequency and Voltage | 50/60Hz; 3L/N/PE 220/380, 230/400Vac | | | | |
| Grid Type | Three Phase | | | | |
| DC injection current (mA) | THD<3% (Linear load<1.5%) | | | | |
| Efficiency | | | | | |
| Max. Efficiency | 97.60% | | | | |
| Euro Efficiency | 97.00% | | | | |
| MPPT Efficiency | 99.90% | | | | |
| Integrated | PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge protection | | | | |
| Output Over Voltage Protection | DC Type II/AC Type III | | | | |
| Certifications and Standards | | | | | |
| Grid Regulation | CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11 | | | | |
| Safety EMC / Standard | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 | | | | |
| General Data | | | | | |
| Operating Temperature Range (°C) | -45~60°C, >45°C derating | | | | |
| Cooling | Smrat cooling | | | | |
| Noise (dB) | <45 dB | | | | |
| Communication with BMS | RS485; CAN | | | | |
| Weight (kg) | 33.6 | | | | |
| Size (mm) | 422W x 699.3H x 279D | | | | |
| Protection Degree | IP65 | | | | |
| Installation Style | Wall-mounted | | | | |
| Warranty | 5 years | | | | |