

Hybrid Inverter

SUN- 3 / 3.6 / 5 / 6 K-SG04LP1-AU



Colorful touch LCD, IP65 protection degree



AC couple to retrofit existing solar system

16

Max. 16pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel

135

Max. charging/discharging current of 135A

6

6 time periods for battery charging/discharging



Support storing energy from diesel generator

Deye

Stock Code: 605117.SH

| Model | SUN-3K -SG04LP1-24-AU | SUN-3K -SG04LP1-AU | SUN-3.6K -SG04LP1-AU | SUN-5K -SG04LP1-AU | SUN-6K -SG04LP1-AU |
|---|--|-----------------------|-------------------------|-----------------------|-----------------------|
| Battery Input Data | | | | | |
| Battery Type | Lead-acid or Li-Ion | | | | |
| Battery Voltage Range (V) | 20-30 | 40-60 | 40-60 | 40-60 | 40-60 |
| Max. Charging Current (A) | 140 | 70 | 90 | 120 | 135 |
| Max. Discharging Current (A) | 140 | 70 | 90 | 120 | 135 |
| External Temperature Sensor | Yes | | | | |
| Charging Curve | 3 Stages / Equalization | | | | |
| Charging Strategy for Li-Ion Battery | Self-adaption to BMS | | | | |
| PV String Input Data | | | | | |
| Max. PV Input Power (W) | 4500 | 4500 | 5400 | 7500 | 9000 |
| Rated PV Input Voltage (V) | 370 (125~500) | | | | |
| Start-up Voltage (V) | 125 | | | | |
| MPPT Voltage Range (V) | 150~425 | | | | |
| Full Load PV Voltage Range (V) | 300~425 | | | | |
| PV Input Current (A) | 13 | | | 13+13 | |
| Max. PV I _{sc} (A) | 19.5 | | | 19.5+19.5 | |
| Number of MPPT / Strings per MPPT | 1/1 | | | 2/1+1 | |
| AC Output Data | | | | | |
| Rated AC Output and UPS Power (VA) | 3000 | | 3600 | 5000 | 6000 |
| Max. AC Output Power (W) | 3000 | | 3600 | 5000 | 6000 |
| AC Output Rated Current (A) | 13 | | 15.7 | 21.7 | 26.1 |
| Max. AC Output Current (A) | 13 | | 15.7 | 21.7 | 26.1 |
| Max. Continuous AC Passthrough (A) | | | 35 | | 40 |
| Peak Power (off grid) | 2 time of rated power, 10 S | | | | |
| Power Factor | 0.8 leading to 0.8 lagging | | | | |
| Output Frequency and Voltage | 230V/240V0.85Un-1.1Un | | | | |
| Grid Connection Form | L+N+PE | | | | |
| Total Harmonics Current Distortion (THDi) | < 3% (of nominal power) | | | | |
| DC current injection | <0.5% I _n | | | | |
| Efficiency | | | | | |
| Max. Efficiency | 97.60% | | | | |
| Euro Efficiency | 96.50% | | | | |
| MPPT Efficiency | 99.90% | | | | |
| Protection | | | | | |
| Integrated | 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 | | | | |
| Over Voltage Category | DC Type II/AC Type III | | | | |
| Certifications and Standards | | | | | |
| Grid Regulation | AS/NZS 4777.2 | | | | |
| Safety EMC / Standard | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 | | | | |
| General Data | | | | | |
| Operating Temperature Range () | -40 to +60 , >45 derating | | | | |
| Cooling | Free cooling | | | | Smart cooling |
| Noise (dB) | < 30 dB | | | | |
| Communication Interface | RS485/RS232 | | | | |
| Monitor Mode | GPRS/WIFI/Bluetooth/4G/LAN(optional) | | | | |
| Weight (kg) | 17 | | | 17 | |
| Size (mm) | 333W x 433H x 229D (Excluding connectors and brackets) | | | | |
| Protection Degree | IP65 | | | | |
| Installation Style | Wall-mounted | | | | |
| Warranty | 10 Years | | | | |