

Hybrid Inverter

SUN-3.6/5/6K-SG03LP1-EU



Colorful touch LCD, IP65 protection degree



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

190

Max. charging/discharging current of 190A

6

6 time periods for battery charging/discharging



Support storing energy from diesel generator

Deye

Stock Code: 605117.SH

| Model | SUN-3.6K-SG03LP1-EU | SUN-5K-SG03LP1-EU | SUN-6K-SG03LP1-EU |
|--------------------------------------|---|-------------------|-------------------|
| Battery Input Data | | | |
| Battery Type | Lead-acid or Li-Ion | | |
| Battery Voltage Range (V) | 40~60 | | |
| Max. Charging Current (A) | 90 | 120 | 135 |
| Max. Discharging Current (A) | 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. DC Input Power (W) | 4680 | 6500 | 7800 |
| Rated PV Input Voltage (V) | 370 (125~500) | | |
| Start-up Voltage (V) | 125 | | |
| MPPT Voltage Range (V) | 150-425 | | |
| Full Load DC Voltage Range (V) | 300-425 | | |
| PV Input Current (A) | 13+13 | | |
| Max. PV I _{sc} (A) | 17+17 | | |
| No.of MPP Trackers | 2 | | |
| No.of Strings per MPP Tracker | 1 | | |
| AC Output Data | | | |
| Rated AC Output and UPS Power (W) | 3600 | 5000 | 6000 |
| Max. AC Output Power (W) | 3690 | 5500 | 6600 |
| AC Output Rated Current (A) | 16.4/15.7 | 22.7/21.7 | 27.3/26.1 |
| Max. AC Current (A) | 18/17.2 | 25/23.9 | 30/28.7 |
| 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 | 50/60Hz; L/N/PE 220/230Vac (single phase) | | |
| Grid Type | Single Phase | | |
| DC injection current (mA) | THD<3% (Linear load<1.5%) | | |
| Efficiency | | | |
| Max. Efficiency | 97.60% | | |
| Euro Efficiency | 96.50% | | |
| MPPT Efficiency | 99.90% | | |
| Protection | | | |
| 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 () | -40~60 , >45 derating | | |
| Cooling | Natural cooling | | |
| Noise (dB) | <30 dB | | |
| Communication with BMS | RS485; CAN | | |
| Weight (kg) | 20.5 | | |
| Size (mm) | 330W x 580H x232D | | |
| Protection Degree | IP65 | | |
| Installation Style | Wall-mounted | | |
| Warranty | 5 years | | |