

Single Phase Hybrid Inverter

SUN-7/7.6/8/10K-SG05LP1-EU-SM2



Colorful touch LCD, IP65 protection degree



AC couple to retrofit existing solar system



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



Max. charging/discharging current of 210A



6 time periods for battery charging/discharging



Support storing energy from diesel generator

Deye

Stock Code: 605117.SH

| Model | SUN-7K-SG05LP1 -EU-SM2 | SUN-7.6K-SG05LP1 -EU-SM2 | SUN-8K-SG05LP1 -EU-SM2 | SUN-10K-SG05LP1 -EU-SM2 |
|--|---|-----------------------------|---------------------------|----------------------------|
| Battery Input Data | | | | |
| Battery Type | Lead-acid or Lithium-ion | | | |
| Battery Voltage Range (V) | 40-60 | | | |
| Max. Charging Current (A) | 175 | 190 | 190 | 210 |
| Max. Discharging Current (A) | 175 | 190 | 190 | 210 |
| Charging Strategy for Li-ion Battery | Self-adaption to BMS | | | |
| Number of Battery Input | 1 | | | |
| PV String Input Data | | | | |
| Max. PV Access Power (W) | 14000 | 15200 | 16000 | 20000 |
| Max. PV Input Power (W) | 11200 | 12160 | 12800 | 16000 |
| Max. PV Input Voltage (V) | 500 | | | |
| Start-up Voltage (V) | 125 | | | |
| MPPT Voltage Range (V) | 150-425 | | | |
| Rated PV Input Voltage (V) | 370 | | | |
| Max. Operating PV Input Current (A) | 26+26 | | | |
| Max. Input Short-Circuit Current (A) | 34+34 | | | |
| No. of MPP Trackers/ No. of Strings MPP Tracker | 2/2+2 | | | |
| AC Input/Output Data | | | | |
| Rated AC Input/Output Active Power (W) | 7000 | 7600 | 8000 | 10000 |
| Max. AC Input/Output Apparent Power (VA) | 7700 | 8360 | 8800 | 11000 |
| Rated AC Input/Output Current (A) | 31.9/30.5 | 34.6/33.1 | 36.4/34.8 | 45.5/43.5 |
| Max. AC Input/Output Current (A) | 35/33.5 | 38/36.4 | 40/38.3 | 50/47.9 |
| Max. Continuous AC Passthrough (grid to load) (A) | 50 | | | |
| Peak Power (off-grid) (W) | 2 times of rated power, 10s | | | |
| Power Factor Adjustment Range | 0.8 leading to 0.8 lagging | | | |
| Rated Input/Output Voltage/Range (V) | 220/230 0.85Un-1.1Un | | | |
| Rated Input/Output Grid Frequency/Range(Hz) | 50/45-55, 60/55-65 | | | |
| Grid Connection Form | L+N+PE | | | |
| Total Current Harmonic Distortion THDi | <3% (of nominal power) | | | |
| DC Injection Current | <0.5% In | | | |
| Efficiency | | | | |
| Max. Efficiency | 97.6% | | | |
| Euro Efficiency | 96.5% | | | |
| MPPT Efficiency | >99% | | | |
| Equipment Protection | | | | |
| Integrated | DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection | | | |
| Surge Protection Level | TYPE II(DC), TYPE II(AC) | | | |
| Interface | | | | |
| Communication Interface | RS485/RS232/CAN | | | |
| Monitor Mode | GPRS/WIFI/Bluetooth/4G/LAN(optional) | | | |
| General Data | | | | |
| Operating Temperature Range (°C) | -40 to +60°C, >45°C Derating | | | |
| Permissible Ambient Humidity | 0-100% | | | |
| Permissible Altitude | 2000m | | | |
| Noise (dB) | <45 | | | |
| Ingress Protection(IP) Rating | IP 65 | | | |
| Inverter Topology | Non-Isolated | | | |
| Over Voltage Category | OVC II(DC), OVC III(AC) | | | |
| Cabinet Size (WxHxD mm) | 366×589.5×237 (Excluding Connectors and Brackets) | | | |
| Weight (kg) | 26.8 | | | |
| Type of Cooling | Intelligent Air Cooling | | | |
| Warranty | 5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy | | | |
| Grid Regulation | IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105 | | | |
| Safety / EMC Standard | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 | | | |