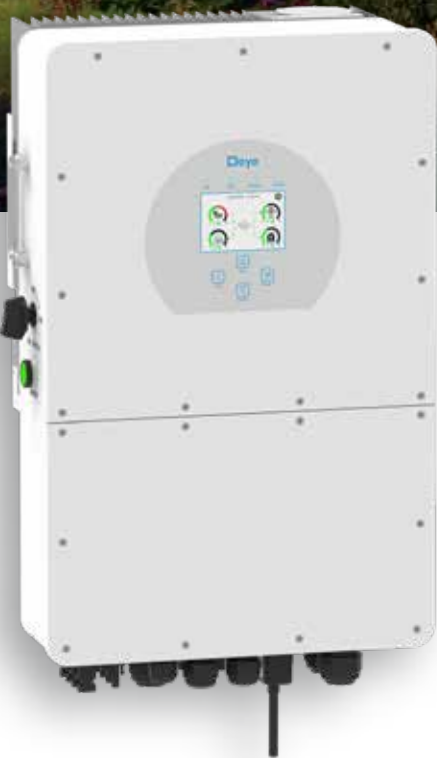




Three Phase Hybrid Inverter

SUN-5/6/8/10/12/15/20K-SG01HP3-EU-AM2



- 100** 100% unbalanced output, each phase; Max. output up to **50%** rated power
-  DC couple and AC couple to retrofit existing solar system
- 10** Max. 10pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- 37** Max. charging/discharging current of 37A
- H** High voltage battery, higher efficiency
- 6** 6 time periods for battery charging/discharging
-  Support storing energy from diesel generator

Deye

Stock Code: 605117.SH

| Model | SUN-5K-SG01 HP3-EU-AM2 | SUN-6K-SG01 HP3-EU-AM2 | SUN-8K-SG01 HP3-EU-AM2 | SUN-10K-SG01 HP3-EU-AM2 | SUN-12K-SG01 HP3-EU-AM2 | SUN-15K-SG01 HP3-EU-AM2 | SUN-20K-SG01 HP3-EU-AM2 | |
|---|---|---------------------------|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|---|
| Battery Input Data | | | | | | | | |
| Battery Type | Li-Ion | | | | | | | |
| Battery Voltage Range (V) | 160~700 | | | | | | | |
| Max. Charging Current (A) | 37 | | | | | | | |
| Max. Discharging Current (A) | 37 | | | | | | | |
| Number of battery input | 1 | | | | | | | |
| Charging Strategy for Li-Ion Battery | Self-adaption to BMS | | | | | | | |
| PV String Input Data | | | | | | | | |
| Max. DC Input Power (W) | 6500 | 7800 | 10400 | 13000 | 15600 | 19500 | 26000 | |
| Max. DC Input Voltage (V) | 1000 | | | | | | | |
| Start-up Voltage (V) | 180 | | | | | | | |
| MPPT Range (V) | 150-850 | | | | | | | |
| Full Load DC Voltage Range (V) | 195-850 | 195-850 | 260-850 | 325-850 | 340-850 | 420-850 | 500-850 | |
| Rated DC Input Voltage (V) | 600 | | | | | | | |
| PV Input Current (A) | 20+20 | | | | 26+20 | | 26+26 | |
| Max. PV I _{SC} (A) | 30+30 | | | | 39+30 | | 39+39 | |
| No. of MPP Trackers | 2 | | | | | | | |
| No. of Strings per MPP Tracker | 1 | | | 2 | | 2+1 | | 2 |
| AC Output Data | | | | | | | | |
| Rated AC Output and UPS Power (W) | 5000 | 6000 | 8000 | 10000 | 12000 | 15000 | 20000 | |
| Max. AC Output Power (W) | 5500 | 6600 | 8800 | 11000 | 13200 | 16500 | 22000 | |
| AC Output Rated Current (A) | 7.6/7.3 | 9.1/8.7 | 12.2/11.6 | 15.2/14.5 | 18.2/17.4 | 22.8/21.8 | 30.4/29 | |
| Max. AC Output Rated Current (A) | 8.4/8 | 10/9.6 | 13.4/12.8 | 16.7/16 | 20/19.2 | 25/24 | 33.4/31.9 | |
| Max. Three-phase Unbalanced Output Current | 13 | 13 | 18 | 22 | 25 | 30 | 35 | |
| Max. Continuous AC Passthrough (A) | 40 | | | | 80 | | | |
| Peak Power (off grid) | 1.5 time of rated power, 10 S | | | | | | | |
| Generator input/Smart load /AC couple current (A) | 7.6/40/7.6 | 9.1/40/9.1 | 12.2/40/12.2 | 15.2/40/15.2 | 18.2/80/18.2 | 22.8/80/22.8 | 30.4/80/30.4 | |
| 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 | | | | | | | |
| Total Harmonic Distortion (THD) | <3% (of nominal power) | | | | | | | |
| DC current injection | <0.5% I _n | | | | | | | |
| Efficiency | | | | | | | | |
| Max. Efficiency | 97.60% | | | | | | | |
| Euro Efficiency | 97.00% | | | | | | | |
| 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 | VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150 | | | | | | | |
| 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°C, >45°C derating | | | | | | | |
| Cooling | Smart cooling | | | | | | | |
| Noise (dB) | <45 dB | | | | | | | |
| Communication with BMS | RS485; CAN | | | | | | | |
| Weight (kg) | 30.5 | | | | | | | |
| Size (mm) | 408W×638H×237D | | | | | | | |
| Protection Degree | IP65 | | | | | | | |
| Installation Style | Wall-mounted | | | | | | | |
| Warranty | 5 years | | | | | | | |