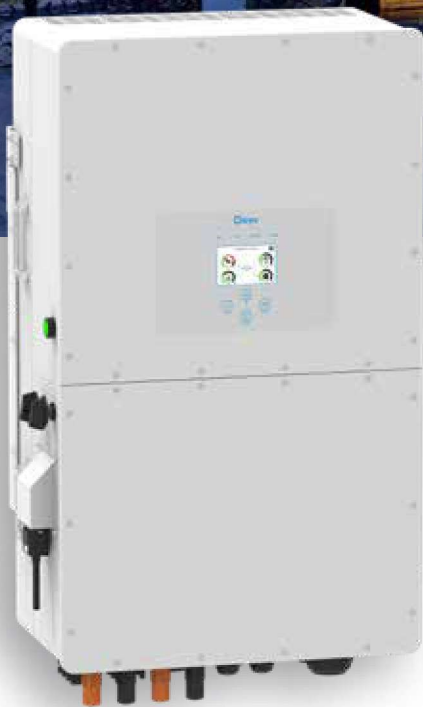




# Three Phase Hybrid Inverter

SUN- 25 / 30 / 40 / 50 K-SG01HP3-EU-BM2/3/4



- 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
- 100** Max. charging/discharging current of 100A
- 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-25K-SG01HP3<br>-EU-BM2  | SUN-30K-SG01HP3<br>-EU-BM3 | SUN-40K-SG01HP3<br>-EU-BM4 | SUN-50K-SG01HP3<br>-EU-BM4 |
|---|---|----------------------------|----------------------------|----------------------------|
| <b>Battery Input Data</b>                         |   |                            |                            |                            |
| Battery Type                                      | Li-Ion  |                            |                            |                            |
| Battery Voltage Range (V)                         | 160~800   |                            |                            |                            |
| Max. Charging Current (A)                         | 50+50   |                            |                            |                            |
| Max. Discharging Current (A)                      | 50+50   |                            |                            |                            |
| Number of battery input                           | 2   |                            |                            |                            |
| Charging Strategy for Li-Ion Battery              | Self-adaption to BMS  |                            |                            |                            |
| <b>PV String Input Data</b>                       |   |                            |                            |                            |
| Max. DC Input Power (W)                           | 32500   | 39000                      | 52000                      | 65000                      |
| Max. DC Input Voltage (V)                         | 1000  |                            |                            |                            |
| Start-up Voltage (V)                              | 180   |                            |                            |                            |
| MPPT Range (V)                                    | 150-850   |                            |                            |                            |
| Full Load DC Voltage Range (V)                    | 450-850   | 360-850                    | 360-850                    | 450-850                    |
| Rated DC Input Voltage (V)                        | 600   |                            |                            |                            |
| PV Input Current (A)                              | 36+36   | 36+36+36                   | 36+36+36+36                |                            |
| Max. PV I <sub>sc</sub> (A)                       | 55+55   | 55+55+55                   | 55+55+55+55                |                            |
| No. of MPP Trackers                               | 2   | 3                          | 4                          |                            |
| No. of Strings per MPP Tracker                    | 2   |                            |                            |                            |
| <b>AC Output Data</b>                             |   |                            |                            |                            |
| Rated AC Output and UPS Power (W)                 | 25000   | 30000                      | 40000                      | 50000                      |
| Max. AC Output Power (W)                          | 27500   | 33000                      | 44000                      | 55000                      |
| AC Output Rated Current (A)                       | 37.9/36.3   | 45.5/43.5                  | 60.7/58                    | 75.8/72.5                  |
| Max. AC Current (A)                               | 50  | 60                         | 70                         | 83.3                       |
| Max. Continuous AC Passthrough (A)                | 150   |                            |                            |                            |
| Peak Power (off grid)                             | 1.5 time of rated power, 10 S   |                            |                            |                            |
| Generator input/Smart load /AC couple current (A) | 37.9 / 150 / 37.9   | 45.5 / 150 / 45.5          | 60.8 / 150 / 60.8          | 75.8 / 150 / 75.8          |
| 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)                         | <0.5%1n   |                            |                            |                            |
| <b>Efficiency</b>                                 |   |                            |                            |                            |
| Max. Efficiency                                   | 97.60%  |                            |                            |                            |
| Euro Efficiency                                   | 97.00%  |                            |                            |                            |
| MPPT Efficiency                                   | 99.90%  |                            |                            |                            |
| <b>Protection</b>                                 |   |                            |                            |                            |
| 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  |                            |                            |                            |
| <b>Certifications and Standards</b>               |   |                            |                            |                            |
| Grid Regulation                                   | EN50549, AS4777.2:2015, VDE0126-1-1, IEC61727, VDEN4105-2018, G99   |                            |                            |                            |
| Safety EMC / Standard                             | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2  |                            |                            |                            |
| <b>General Data</b>                               |   |                            |                            |                            |
| Operating Temperature Range (°C)                  | -40~60°C, >45°C derating  |                            |                            |                            |
| Cooling   | Smart cooling   |                            |                            |                            |
| Noise (dB)  | <45 dB  |                            |                            |                            |
| Communication with BMS                            | RS485; CAN  |                            |                            |                            |
| Weight (kg)                                       | 75  |                            |                            |                            |
| Size (mm)   | 527W×894H×294D  |                            |                            |                            |
| Protection Degree                                 | IP65  |                            |                            |                            |
| Installation Style                                | Wall-mounted  |                            |                            |                            |
| Warranty  | 5 years   |                            |                            |                            |