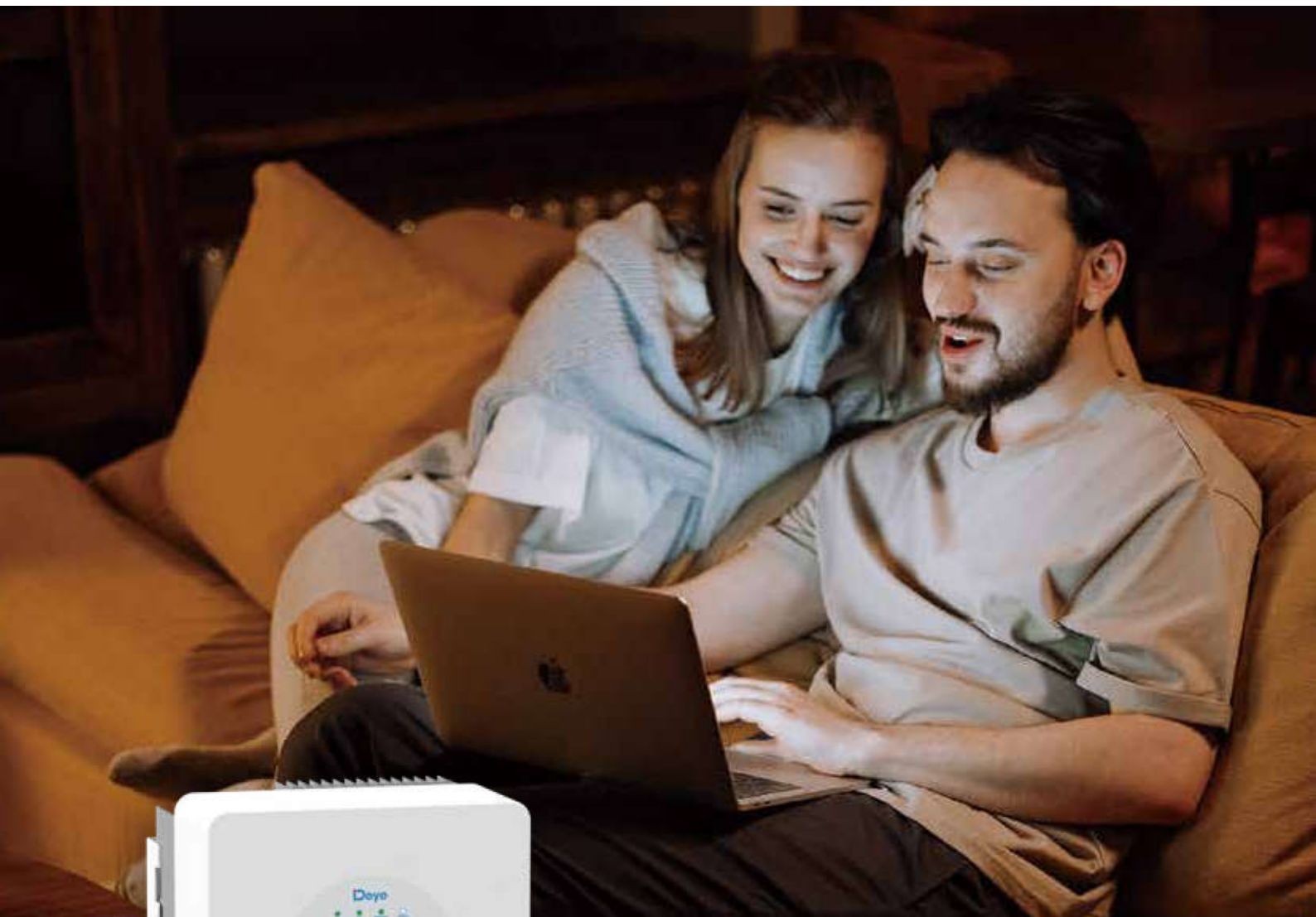


# Hybrid Inverter

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

140

Max. charging/discharging current of 140A

6

6 time periods for battery charging/discharging



Support storing energy from diesel generator

**Deye**




Stock Code: 605117.SH

| Model                                | SUN-3K<br>-SG04LP1-24-EU  | SUN-3K<br>-SG04LP1-EU | SUN-3.6K<br>-SG04LP1-EU | SUN-5K<br>-SG04LP1-EU | SUN-6K<br>-SG04LP1-EU |
|--------------------------------------|---|-----------------------|-------------------------|-----------------------|-----------------------|
| <b>Battery Input Data</b>            |   |                       |                         |                       |                       |
| 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                   |
| Number of battery input              | Yes   |                       |                         |                       |                       |
| Charging Curve                       | 3 Stages / Equalization   |                       |                         |                       |                       |
| Charging Strategy for Li-Ion Battery | Self-adaption to BMS  |                       |                         |                       |                       |
| <b>PV String Input Data</b>          |   |                       |                         |                       |                       |
| Max. DC Input Power (W)              | 3900  | 3900                  | 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+13                 |                       |
| Max. PV ISC (A)                      | 17  |                       |                         | 17+17                 |                       |
| Number of MPPT / Strings per MPPT    | 1/1   |                       |                         | 2/1+1                 |                       |
| <b>AC Output Data</b>                |   |                       |                         |                       |                       |
| Rated AC Output and UPS Power (W)    | 3000  |                       | 3600                    | 5000                  | 6000                  |
| Max. AC Output Power (W)             | 3300  |                       | 3690                    | 5500                  | 6600                  |
| AC Output Rated Current (A)          | 13.6  |                       | 16.4                    | 22.7                  | 27.3                  |
| Max. AC Current (A)                  | 15  |                       | 18                      | 25                    | 30                    |
| 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%)   |                       |                         |                       |                       |
| <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                      | 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  |                       |                         |                       |                       |
| <b>General Data</b>                  |   |                       |                         |                       |                       |
| Operating Temperature Range (°C)     | -45~60°C, >45°C derating  |                       |                         |                       |                       |
| Cooling                              | Natural cooling   |                       |                         |                       |                       |
| Noise (dB)                           | <30 dB  |                       |                         |                       |                       |
| Communication with BMS               | RS485; CAN  |                       |                         |                       |                       |
| Weight (kg)                          | 14  |                       |                         | 15.1                  |                       |
| Size (mm)                            | 330W x 433H x 238D  |                       |                         |                       |                       |
| Protection Degree                    | IP65  |                       |                         |                       |                       |
| Installation Style                   | Wall-mounted  |                       |                         |                       |                       |
| Warranty                             | 5 years   |                       |                         |                       |                       |

# 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

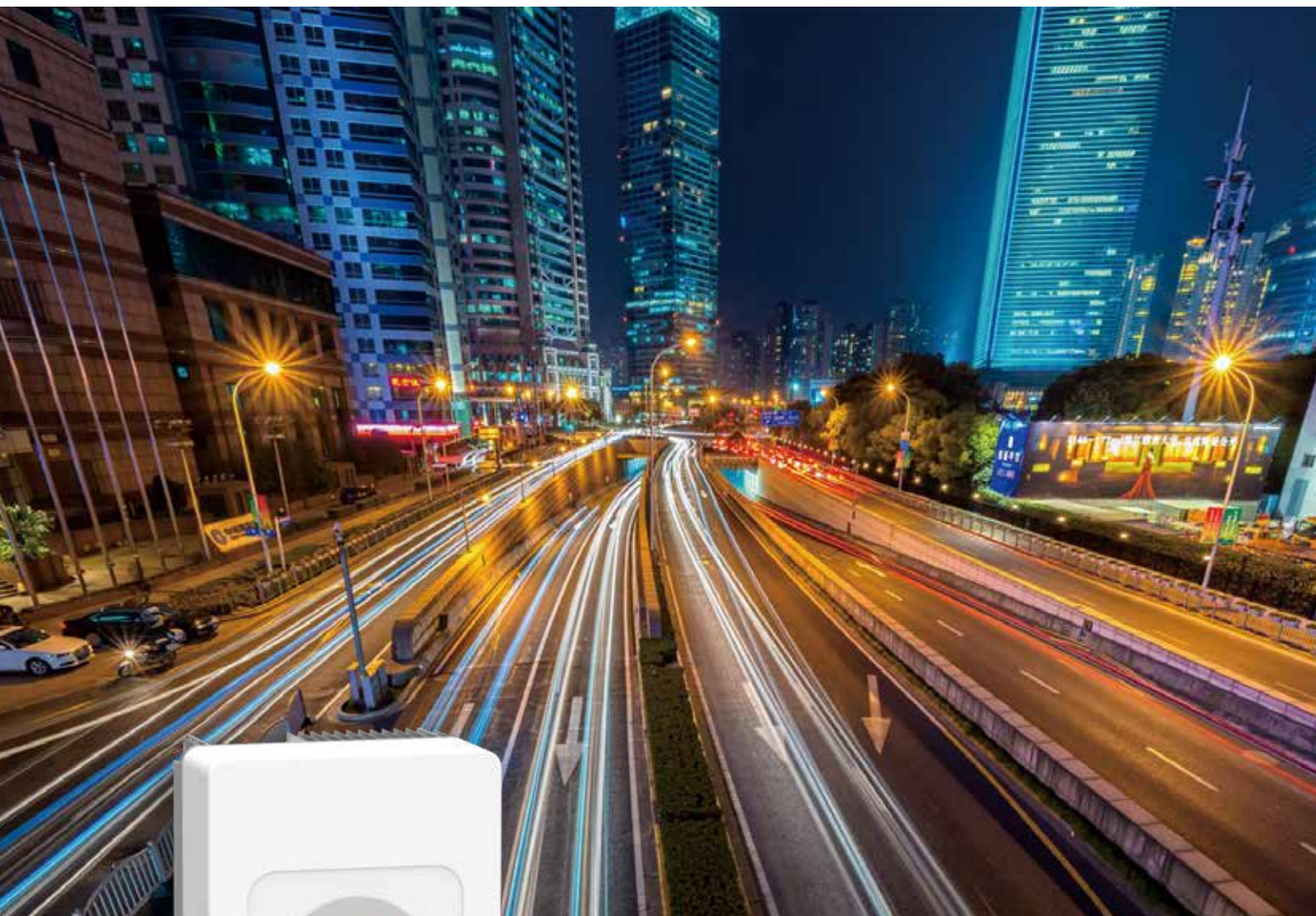
**Deye**

Stock Code: 605117.SH

| Model                                | SUN-3.6K<br>-SG03LP1-EU   | SUN-5K<br>-SG03LP1-EU | SUN-6K<br>-SG03LP1-EU |
|--------------------------------------|---|-----------------------|-----------------------|
| <b>Battery Input Data</b>            |   |                       |                       |
| 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  |                       |                       |
| <b>PV String Input Data</b>          |   |                       |                       |
| 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 ISC (A)                      | 17+17   |                       |                       |
| Number of MPPT / Strings per MPPT    | 2/1+1   |                       |                       |
| <b>AC Output Data</b>                |   |                       |                       |
| 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  | 22.7                  | 27.3                  |
| Max. AC Current (A)                  | 18  | 25                    | 30                    |
| 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%)   |                       |                       |
| <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                      | 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  |                       |                       |
| <b>General Data</b>                  |   |                       |                       |
| Operating Temperature Range (°C)     | -45~60°C, >45°C derating  |                       |                       |
| Cooling                              | Natural cooling   |                       |                       |
| Noise (dB)                           | <30 dB  |                       |                       |
| Communication with BMS               | RS485; CAN  |                       |                       |
| Weight (kg)                          | 20.5  |                       |                       |
| Size (mm)                            | 330W x 580H x 232D  |                       |                       |
| Protection Degree                    | IP65  |                       |                       |
| Installation Style                   | Wall-mounted  |                       |                       |
| Warranty                             | 5 years   |                       |                       |

# Hybrid Inverter

SUN-3.6/5/6/7.6/8K-SG05LP1-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<br>-SG05LP1-EU   | SUN-5K<br>-SG05LP1-EU | SUN-6K<br>-SG05LP1-EU | SUN-7.6K<br>-SG05LP1-EU | SUN-8K<br>-SG05LP1-EU |
|--------------------------------------|---|-----------------------|-----------------------|-------------------------|-----------------------|
| <b>Battery Input Data</b>            |   |                       |                       |                         |                       |
| Battery Type                         | Lead-acid or Li-Ion   |                       |                       |                         |                       |
| Battery Voltage Range (V)            | 40~60   |                       |                       |                         |                       |
| Max. Charging Current (A)            | 90  | 120                   | 135                   | 190                     | 190                   |
| Max. Discharging Current (A)         | 90  | 120                   | 135                   | 190                     | 190                   |
| External Temperature Sensor          | Yes   |                       |                       |                         |                       |
| Charging Curve                       | 3 Stages / Equalization   |                       |                       |                         |                       |
| Charging Strategy for Li-Ion Battery | Self-adaption to BMS  |                       |                       |                         |                       |
| <b>PV String Input Data</b>          |   |                       |                       |                         |                       |
| Max. DC Input Power (W)              | 4680  | 6500                  | 7800                  | 9880                    | 10400                 |
| 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   |                       | 200-425               |                         |                       |
| PV Input Current (A)                 | 13+13   |                       | 26+26                 |                         |                       |
| Max. PV I <sub>SC</sub> (A)          | 17+17   |                       | 34+34                 |                         |                       |
| No. of MPP Trackers                  | 2   |                       |                       |                         |                       |
| No. of Strings per MPP Tracker       | 1   |                       | 2                     |                         |                       |
| <b>AC Output Data</b>                |   |                       |                       |                         |                       |
| Rated AC Output and UPS Power (W)    | 3600  | 5000                  | 6000                  | 7600                    | 8000                  |
| Max. AC Output Power (W)             | 3690  | 5500                  | 6600                  | 8360                    | 8800                  |
| AC Output Rated Current (A)          | 16.4  | 22.7                  | 27.3                  | 34.5                    | 36.4                  |
| Max. AC Current (A)                  | 18  | 25                    | 30                    | 38                      | 40                    |
| Max. Continuous AC Passthrough (A)   | 35  |                       | 40                    | 50                      |                       |
| 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%)   |                       |                       |                         |                       |
| <b>Efficiency</b>                    |   |                       |                       |                         |                       |
| Max. Efficiency                      | 97.60%  |                       |                       |                         |                       |
| Euro Efficiency                      | 96.50%  |                       |                       |                         |                       |
| 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                      | 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  |                       |                       |                         |                       |
| <b>General Data</b>                  |   |                       |                       |                         |                       |
| Operating Temperature Range (°C)     | -45~60°C, >45°C derating  |                       |                       |                         |                       |
| Cooling                              | Natural cooling   |                       |                       |                         |                       |
| Noise (dB)                           | <30 dB  |                       |                       |                         |                       |
| Communication with BMS               | RS485; CAN  |                       |                       |                         |                       |
| Weight (kg)                          | 24  |                       |                       |                         |                       |
| Size (mm)                            | 330W x 580H x 232D  |                       |                       |                         |                       |
| Protection Degree                    | IP65  |                       |                       |                         |                       |
| Installation Style                   | Wall-mounted  |                       |                       |                         |                       |
| Warranty                             | 5 years   |                       |                       |                         |                       |

# Hybrid Inverter

SUN-5/6K-SG01LP1-US SUN-7.6/8K-SG01LP1-US/EU



-  Colorful touch LCD, IP65 protection degree
-  DC couple and AC couple to retrofit existing solar system
-  Max. 16pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
-  Max. charging/discharging current of 190A
-  6 time periods for battery charging/discharging
-  Support storing energy from diesel generator

**Deye**

Stock Code: 605117.SH



| Model                                | SUN-5K<br>-SG01LP1-US   | SUN-6K<br>-SG01LP1-US | SUN-7.6K<br>-SG01LP1-US/EU | SUN-8K<br>-SG01LP1-US/EU |           |      |
|--------------------------------------|---|-----------------------|----------------------------|--------------------------|-----------|------|
| <b>Battery Input Data</b>            |   |                       |                            |                          |           |      |
| Battery Type                         | Lead-acid or Li-Ion   |                       |                            |                          |           |      |
| Battery Voltage Range (V)            | 40~60   |                       |                            |                          |           |      |
| Max. Charging Current (A)            | 120   | 135                   | 190                        | 190                      |           |      |
| Max. Discharging Current (A)         | 120   | 135                   | 190                        | 190                      |           |      |
| External Temperature Sensor          | Yes   |                       |                            |                          |           |      |
| Charging Curve                       | 3 Stages / Equalization   |                       |                            |                          |           |      |
| Charging Strategy for Li-Ion Battery | Self-adaption to BMS  |                       |                            |                          |           |      |
| <b>PV String Input Data</b>          |   |                       |                            |                          |           |      |
| Max. DC Input Power (W)              | 6500  | 7800                  | 9880                       | 10400                    |           |      |
| 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   | 200~425               |                            |                          |           |      |
| PV Input Current (A)                 | 13+13   | 26+13                 | 26+26                      |                          |           |      |
| Max. PV ISC (A)                      | 17+17   | 34+17                 | 34+34                      |                          |           |      |
| Number of MPPT / Strings per MPPT    | 2/1+1   | 2/2+1                 | 2/2+2                      |                          |           |      |
| <b>AC Output Data</b>                |   |                       |                            |                          |           |      |
| Rated AC Output and UPS Power (W)    | 5000  | 6000                  | 7600                       | 8000                     |           |      |
| Max. AC Output Power (W)             | 5500  | 6600                  | 8360                       | 8800                     |           |      |
| AC Output Rated Current (A)          | 20.8/24   | 25/28.8               | 31.7/36.5                  | 34.5                     | 33.3/38.5 | 36.4 |
| Max. AC Current (A)                  | 22.9/26.4   | 27.5/31.7             | 34.8/40.2                  | 38                       | 36.7/42.3 | 40   |
| Max. Continuous AC Passthrough (A)   | 40  |                       | 50                         |                          |           |      |
| 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; L1/L2/N(PE) 120/240Vac (split phase), 208Vac (2/3 phase), L/N/PE 220/230Vac (single phase)   |                       |                            |                          |           |      |
| Grid Type                            | Split phase; 2/3 phase; Single Phase  |                       |                            |                          |           |      |
| DC injection current (mA)            | THD<3% (Linear load<1.5%)   |                       |                            |                          |           |      |
| <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                      | 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  |                       |                            |                          |           |      |
| <b>General Data</b>                  |   |                       |                            |                          |           |      |
| Operating Temperature Range (°C)     | -45~60°C, >45°C derating  |                       |                            |                          |           |      |
| Cooling                              | Smart cooling   |                       |                            |                          |           |      |
| Noise (dB)                           | <30 dB  |                       |                            |                          |           |      |
| Communication with BMS               | RS485; CAN  |                       |                            |                          |           |      |
| Weight (kg)                          | 32  |                       |                            |                          |           |      |
| Size (mm)                            | 420W×670H×233D  |                       |                            |                          |           |      |
| Protection Degree                    | IP65  |                       |                            |                          |           |      |
| Installation Style                   | Wall-mounted  |                       |                            |                          |           |      |
| Warranty                             | 5 years   |                       |                            |                          |           |      |



# Hybrid Inverter

SUN- 5 / 6 / 8 / 10 / 12 K-SG04LP3-EU



- 100** 100% unbalanced output, each phase; Max. output up to **50%** rated power
-  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
- 240** Max. charging/discharging current of 240A
- 48** 48V low voltage battery, transformer isolation design
- 6** 6 time periods for battery charging/discharging
-  Support storing energy from diesel generator

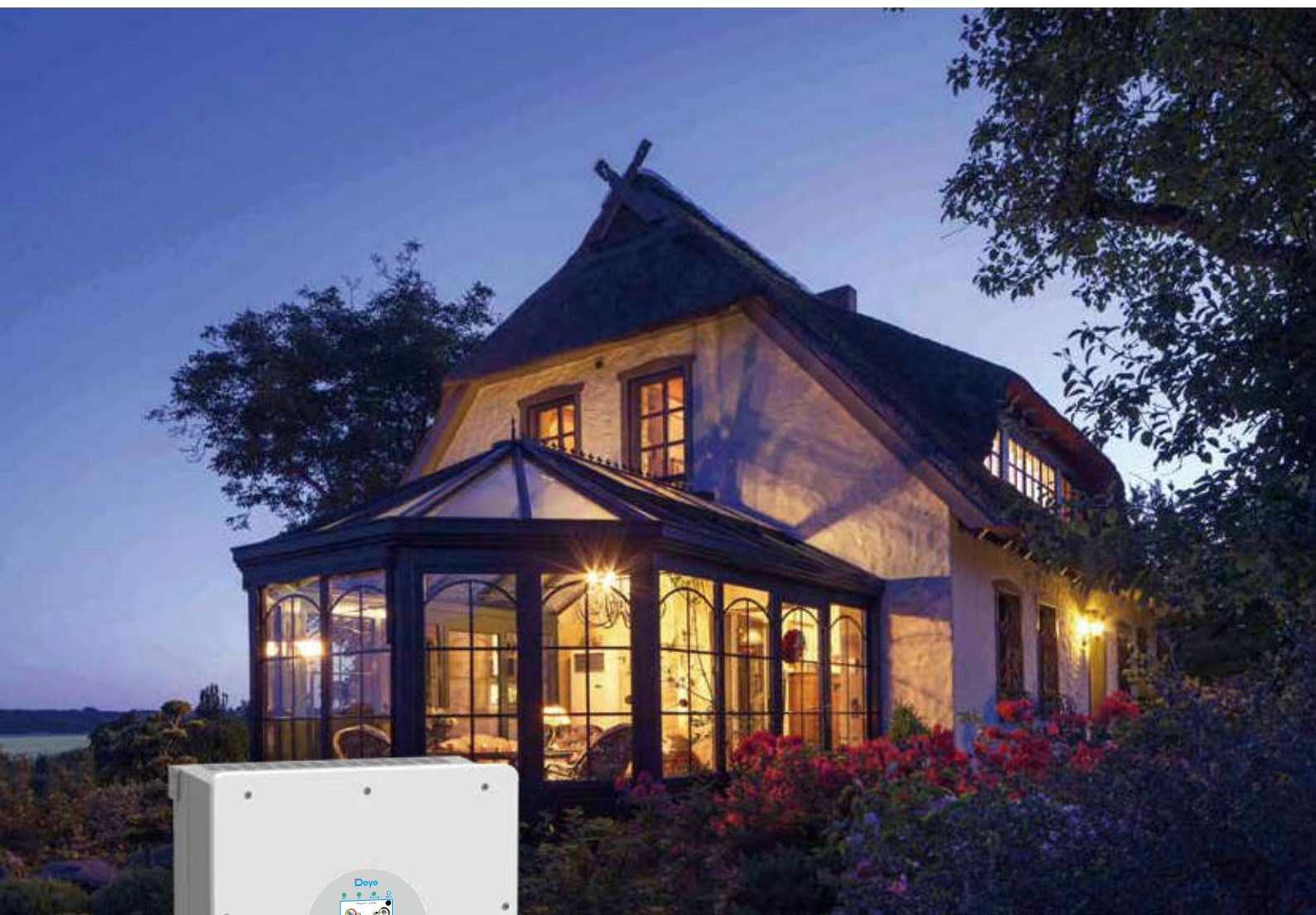
**Deye**

Stock Code: 605117.SH

| Model                                | SUN-5K<br>-SG04LP3-EU   | SUN-6K<br>-SG04LP3-EU | SUN-8K<br>-SG04LP3-EU | SUN-10K<br>-SG04LP3-EU | SUN-12K<br>-SG04LP3-EU |
|--------------------------------------|---|-----------------------|-----------------------|------------------------|------------------------|
| <b>Battery Input Data</b>            |   |                       |                       |                        |                        |
| Battery Type                         | Lead-acid or Li-Ion   |                       |                       |                        |                        |
| Battery Voltage Range (V)            | 40~60   |                       |                       |                        |                        |
| Max. Charging Current (A)            | 120   | 150                   | 190                   | 210                    | 240                    |
| Max. Discharging Current (A)         | 120   | 150                   | 190                   | 210                    | 240                    |
| External Temperature Sensor          | Yes   |                       |                       |                        |                        |
| Charging Curve                       | 3 Stages / Equalization   |                       |                       |                        |                        |
| Charging Strategy for Li-Ion Battery | Self-adaption to BMS  |                       |                       |                        |                        |
| <b>PV String Input Data</b>          |   |                       |                       |                        |                        |
| Max. DC Input Power (W)              | 6500  | 7800                  | 10400                 | 13000                  | 15600                  |
| Rated PV Input Voltage (V)           | 550 (160~800)   |                       |                       |                        |                        |
| Start-up Voltage (V)                 | 160   |                       |                       |                        |                        |
| MPPT Voltage Range (V)               | 200-650   |                       |                       |                        |                        |
| Full Load DC Voltage Range (V)       | 350-650   |                       |                       |                        |                        |
| PV Input Current (A)                 | 13+13   |                       |                       | 26+13                  |                        |
| Max. PV ISC (A)                      | 17+17   |                       |                       | 34+17                  |                        |
| Number of MPPT / Strings per MPPT    | 2/1+1   |                       |                       | 2/2+1                  |                        |
| <b>AC Output Data</b>                |   |                       |                       |                        |                        |
| Rated AC Output and UPS Power (W)    | 5000  | 6000                  | 8000                  | 10000                  | 12000                  |
| Max. AC Output Power (W)             | 5500  | 6600                  | 8800                  | 11000                  | 13200                  |
| AC Output Rated Current (A)          | 7.6   | 9.1                   | 12.1                  | 15.2                   | 18.2                   |
| Max. AC Current (A)                  | 11.4  | 13.6                  | 18.2                  | 22.7                   | 27.3                   |
| Max. Continuous AC Passthrough (A)   | 45  |                       |                       |                        |                        |
| 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; 3L/N/PE 220/380, 230/400Vac  |                       |                       |                        |                        |
| Grid Type                            | Three Phase   |                       |                       |                        |                        |
| DC injection current (mA)            | THD<3% (Linear load<1.5%)   |                       |                       |                        |                        |
| <b>Efficiency</b>                    |   |                       |                       |                        |                        |
| Max. Efficiency                      | 97.60%  |                       |                       |                        |                        |
| Euro Efficiency                      | 97.00%  |                       |                       |                        |                        |
| MPPT Efficiency                      | 99.90%  |                       |                       |                        |                        |
| 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                      | 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  |                       |                       |                        |                        |
| <b>General Data</b>                  |   |                       |                       |                        |                        |
| Operating Temperature Range (°C)     | -45~60°C, >45°C derating  |                       |                       |                        |                        |
| Cooling                              | Smart cooling   |                       |                       |                        |                        |
| Noise (dB)                           | <45 dB  |                       |                       |                        |                        |
| Communication with BMS               | RS485; CAN  |                       |                       |                        |                        |
| Weight (kg)                          | 33.6  |                       |                       |                        |                        |
| Size (mm)                            | 422W x 699.3H x 279D  |                       |                       |                        |                        |
| Protection Degree                    | IP65  |                       |                       |                        |                        |
| Installation Style                   | Wall-mounted  |                       |                       |                        |                        |
| Warranty                             | 5 years   |                       |                       |                        |                        |

# Hybrid Inverter

SUN- 12 / 14 / 16 K-SG01LP1-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

290

Max. charging/discharging current of 290A

6

6 time periods for battery charging/discharging



Support storing energy from diesel generator

**Deye**

Stock Code: 605117.SH

| Model                                | SUN-12K-SG01LP1-EU  | SUN-14K-SG01LP1-EU | SUN-16K-SG01LP1-EU |
|--------------------------------------|---|--------------------|--------------------|
| <b>Battery Data</b>                  |   |                    |                    |
| Battery Type                         | Lead-acid or Li-Ion   |                    |                    |
| Battery Voltage Range (V)            | 40~60   |                    |                    |
| Max. Charging Current (A)            | 220   | 250                | 290                |
| Max. Discharging Current (A)         | 220   | 250                | 290                |
| UPS Power (W)                        | 12000   | 14000              | 16000              |
| External Temperature Sensor          | Yes   |                    |                    |
| Charging Curve                       | 3 Stages / Equalization   |                    |                    |
| Charging Strategy for Li-Ion Battery | Self-adaption to BMS  |                    |                    |
| <b>PV String Input Data</b>          |   |                    |                    |
| Max. DC Input Power (W)              | 15600   | 18200              | 20800              |
| Max. DC Input Voltage (V)            | 500   |                    |                    |
| Start-up Voltage (V)                 | 150   |                    |                    |
| MPPT Range (V)                       | 150~425   |                    |                    |
| Rated DC Input Voltage (V)           | 370   |                    |                    |
| PV Input Current (A)                 | 26+26   | 26+26+26           | 26+26+26           |
| Max. PV ISC (A)                      | 44+44   | 44+44+44           | 44+44+44           |
| Number of MPPT / Strings per MPPT    | 2/2   | 3/2                | 3/2                |
| <b>AC Output Data</b>                |   |                    |                    |
| Rated AC Output (W)                  | 12000   | 14000              | 16000              |
| AC Output Rated Current (A)          | 52.2  | 60.9               | 69.6               |
| Max. Continuous AC Passthrough (A)   | 100   |                    |                    |
| Peak Power (off grid)                | 2 time of rated power, 5 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)            | <0.5%1n   |                    |                    |
| <b>Backup Data</b>                   |   |                    |                    |
| Backup Power (W)                     | 10000   | 12000              | 14000              |
| Backup Rated Current (A)             | 43.5  | 52.2               | 60.9               |
| Backup UPS                           | 6ms Automatic switchover time   |                    |                    |
| <b>Efficiency</b>                    |   |                    |                    |
| Max. Efficiency                      | 97.60%  |                    |                    |
| Euro Efficiency                      | 96.50%  |                    |                    |
| MPPT Efficiency                      | 99.90%  |                    |                    |
| 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                      | 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  |                    |                    |
| <b>General Data</b>                  |   |                    |                    |
| Operating Temperature Range (°C)     | -45~60°C, >45°C derating  |                    |                    |
| Cooling                              | Smart cooling   |                    |                    |
| Noise (dB)                           | <30 dB  |                    |                    |
| Communication with BMS               | RS485; CAN  |                    |                    |
| Weight (kg)                          | 48.5  |                    |                    |
| Size (mm)                            | 464W×798.4H×300D  |                    |                    |
| Protection Degree                    | IP65  |                    |                    |
| Installation Style                   | Wall-mounted  |                    |                    |
| Warranty                             | 5 years   |                    |                    |
| <b>Features</b>                      |   |                    |                    |
| Max. Number of Parallel (PCS)        | 16  |                    |                    |



# Three Phase Hybrid Inverter

SUN- 6 / 8 / 10 / 12 / 15 K-SG01HP3-EU



**Deye**

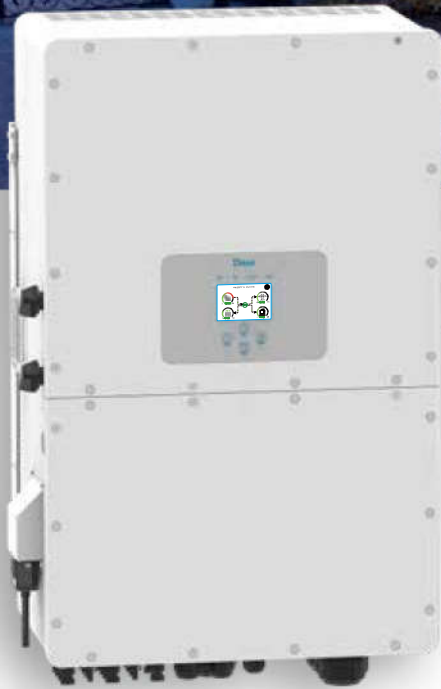
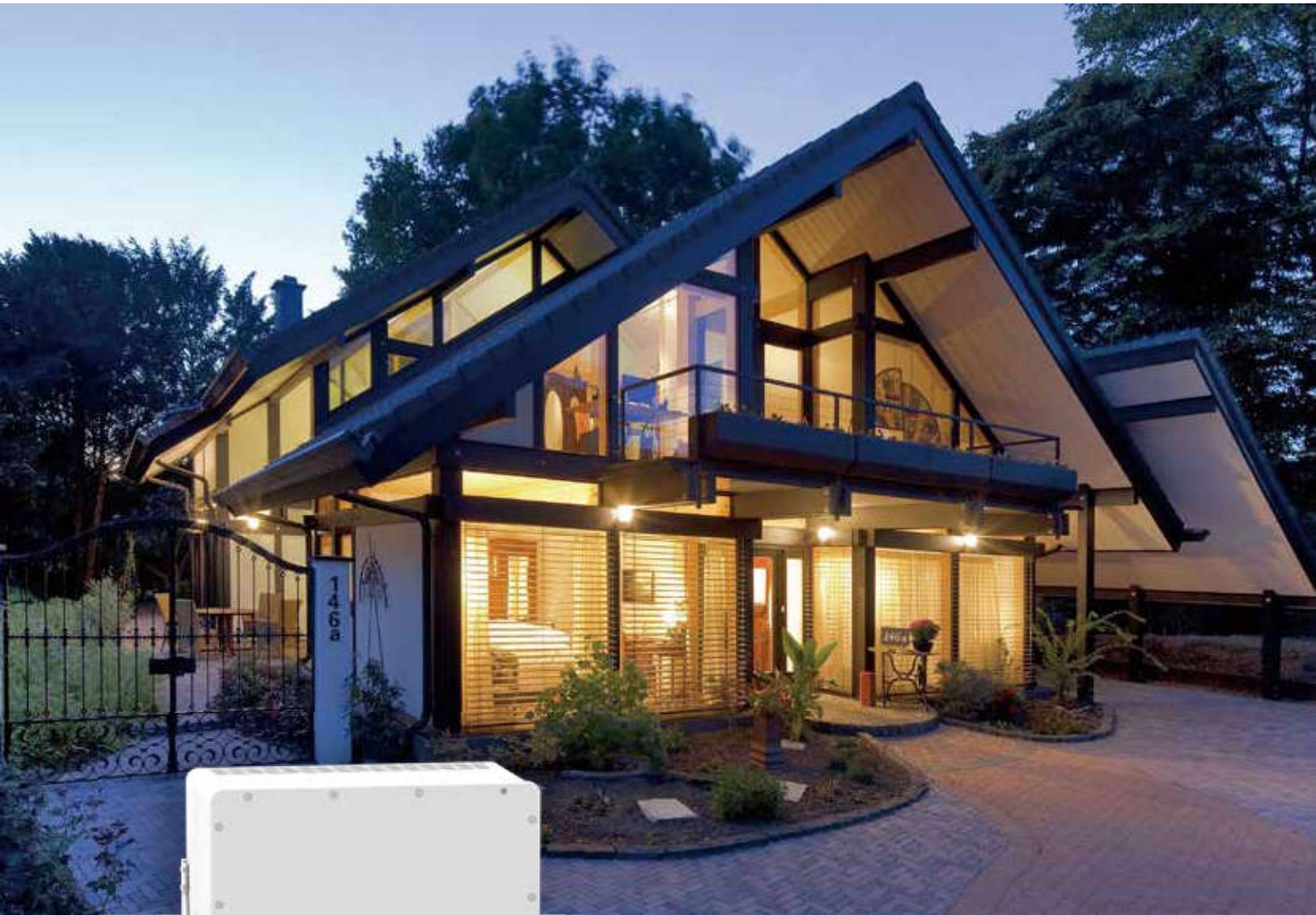
Stock Code: 605117.SH



- 100** 100% unbalanced output, each phase; Max. output up to **50%** rated power
-  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
- 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

| Model   | SUN-6K<br>-SG01HP3-EU   | SUN-8K<br>-SG01HP3-EU | SUN-10K<br>-SG01HP3-EU | SUN-12K<br>-SG01HP3-EU | SUN-15K<br>-SG01HP3-EU |
|---|---|-----------------------|------------------------|------------------------|------------------------|
| <b>Battery Input Data</b>   |   |                       |                        |                        |                        |
| Battery Type  | Lead-acid or Li-Ion   |                       |                        |                        |                        |
| Battery Voltage Range (V)   | 96~600  |                       |                        |                        |                        |
| Max. Charging Current (A)   | 37  |                       |                        |                        |                        |
| Max. Discharging Current (A)  | 37  |                       |                        |                        |                        |
| Number of battery input   | 1   |                       |                        |                        |                        |
| Charging Curve  | 3 Stages / Equalization   |                       |                        |                        |                        |
| Charging Strategy for Li-Ion Battery  | Self-adaption to BMS  |                       |                        |                        |                        |
| <b>PV String Input Data</b>   |   |                       |                        |                        |                        |
| Max. DC Input Power (W)   | 7800  | 10400                 | 13000                  | 15600                  | 19500                  |
| Max. DC Input Voltage (V)   | 1000  |                       |                        |                        |                        |
| Start-up Voltage (V)  | 160   |                       |                        |                        |                        |
| MPPT Range (V)  | 200-850   |                       |                        |                        |                        |
| Full Load DC Voltage Range (V)  | 300-850   |                       |                        |                        |                        |
| Rated DC Input Voltage (V)  | 150   |                       |                        |                        |                        |
| PV Input Current (A)  | 26+26   |                       |                        |                        |                        |
| Max. PV ISC (A)   | 40+40   |                       |                        |                        |                        |
| Number of MPPT / Strings per MPPT   | 2/2+1   |                       |                        |                        |                        |
| <b>AC Output Data</b>   |   |                       |                        |                        |                        |
| Rated AC Output and UPS Power (W)   | 6000  | 8000                  | 10000                  | 12000                  | 15000                  |
| Max. AC Output Power (W)  | 6600  | 8800                  | 11000                  | 13200                  | 16500                  |
| AC Output Rated Current (A)   | 9.1   | 12.1                  | 15.2                   | 18.2                   | 22.7                   |
| Max. AC Current (A)   | 13.6  | 18.2                  | 22.7                   | 27.3                   | 34.1                   |
| Max. Continuous AC Passthrough (A)  | 50  |                       |                        |                        |                        |
| Peak Power (off grid)   | 2 time of rated power, 10 S   |                       |                        |                        |                        |
| Generator input/Smart load /AC couple current (A)   | 9.1 / *180 / 9.1  | 12.1 / *180 / 12.1    | 15.2 / *180 / 15.2     | 18.2 / *180 / 18.2     | 22.7 / *180 / 22.7     |
| 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%In   |                       |                        |                        |                        |
| <b>Efficiency</b>   |   |                       |                        |                        |                        |
| Max. Efficiency   | 97.60%  |                       |                        |                        |                        |
| Euro Efficiency   | 97.00%  |                       |                        |                        |                        |
| MPPT Efficiency   | 99.90%  |                       |                        |                        |                        |
| Integrated<br>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   | 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  |                       |                        |                        |                        |
| <b>General Data</b>   |   |                       |                        |                        |                        |
| Operating Temperature Range (°C)  | -45~60°C, >45°C derating  |                       |                        |                        |                        |
| Cooling   | Smart cooling   |                       |                        |                        |                        |
| Noise (dB)  | <45 dB  |                       |                        |                        |                        |
| Communication with BMS  | RS485; CAN  |                       |                        |                        |                        |
| Weight (kg)   | 26  |                       |                        |                        |                        |
| Size (mm)   | 396W×580H×230D  |                       |                        |                        |                        |
| Protection Degree   | IP65  |                       |                        |                        |                        |
| Installation Style  | Wall-mounted  |                       |                        |                        |                        |
| Warranty  | 5 years   |                       |                        |                        |                        |

# Three Phase Hybrid Inverter

SUN- 20 / 25 / 30 / 40 / 50 K-SG01HP3-EU



- 100** 100% unbalanced output, each phase; Max. output up to **50%** rated power
-  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
- 74** Max. charging/discharging current of 74A
- 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-20K<br>-SG01HP3-EU  | SUN-25K<br>-SG01HP3-EU | SUN-30K<br>-SG01HP3-EU | SUN-40K<br>-SG01HP3-EU | SUN-50K<br>-SG01HP3-EU |
|---|---|------------------------|------------------------|------------------------|------------------------|
| <b>Battery Input Data</b>                         |   |                        |                        |                        |                        |
| Battery Type                                      | Lead-acid or Li-Ion   |                        |                        |                        |                        |
| Battery Voltage Range (V)                         | 200~700   |                        |                        |                        |                        |
| Max. Charging Current (A)                         | 37  | 37+37                  |                        |                        |                        |
| Max. Discharging Current (A)                      | 37  | 37+37                  |                        |                        |                        |
| Number of battery input                           | 1   | 2                      |                        |                        |                        |
| Charging Curve                                    | 3 Stages / Equalization   |                        |                        |                        |                        |
| Charging Strategy for Li-Ion Battery              | Self-adaption to BMS  |                        |                        |                        |                        |
| <b>PV String Input Data</b>                       |   |                        |                        |                        |                        |
| Max. DC Input Power (W)                           | 26000   | 32500                  | 39000                  | 52000                  | 65000                  |
| Max. DC Input Voltage (V)                         | 1000  |                        |                        |                        |                        |
| Start-up Voltage (V)                              | 160   |                        |                        |                        |                        |
| MPPT Range (V)                                    | 200-850   |                        |                        |                        |                        |
| Min. DC Input Voltage (V)                         | 150   |                        |                        |                        |                        |
| Full Load DC Voltage Range (V)                    | 360-850   | 365-850                | 435-850                | 450-850                | 450-850                |
| Rated DC Input Voltage (V)                        | 500   | 625                    | 500                    | 500                    | 625                    |
| PV Input Current (A)                              | 36+36   |                        | 36+36+36               | 36+36+36+36            |                        |
| Max. PV ISC (A)                                   | 50+50   |                        | 50+50+50               | 50+50+50+50            |                        |
| Number of MPPT / Strings per MPPT                 | 2/2+2   |                        | 3/2+2+2                | 4/2+2+2+2              |                        |
| <b>AC Output Data</b>                             |   |                        |                        |                        |                        |
| Rated AC Output and UPS Power (W)                 | 20000   | 25000                  | 30000                  | 40000                  | 50000                  |
| Max. AC Output Power (W)                          | 22000   | 27500                  | 33000                  | 44000                  | 55000                  |
| AC Output Rated Current (A)                       | 30.3  | 38                     | 45.6                   | 60.8                   | 75.8                   |
| Max. AC Current (A)                               | 45.4  | 41.8                   | 50.1                   | 66.9                   | 83.3                   |
| Max. Continuous AC Passthrough (A)                | 100   |                        |                        |                        |                        |
| Peak Power (off grid)                             | 2 time of rated power, 10 S   |                        |                        |                        |                        |
| Generator input/Smart load /AC couple current (A) | 30.3 / *180 / 30.3  | 38 / *180 / 38         | 45.6 / *180 / 45.6     | 60.8 / *180 / 60.8     | 75.8 / *180 / 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                                   | 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  |                        |                        |                        |                        |
| <b>General Data</b>                               |   |                        |                        |                        |                        |
| Operating Temperature Range (°C)                  | -45~60°C, >45°C derating  |                        |                        |                        |                        |
| Cooling   | Smart cooling   |                        |                        |                        |                        |
| Noise (dB)  | <45 dB  |                        |                        |                        |                        |
| Communication with BMS                            | RS485; CAN  |                        |                        |                        |                        |
| Weight (kg)                                       | 60  |                        |                        |                        |                        |
| Size (mm)   | 560.5W×837H×319D  |                        |                        |                        |                        |
| Protection Degree                                 | IP65  |                        |                        |                        |                        |
| Installation Style                                | Wall-mounted  |                        |                        |                        |                        |
| Warranty  | 5 years   |                        |                        |                        |                        |