

# Single Phase Off-Grid Inverter

SUN-3.6/5/6K-OG01LP1-EU-AM2



Colorful touch LCD, IP65 protection degree

16

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

135

Max. charging/discharging current of 135A



Support storing energy from diesel generator

**Deye**

Stock Code: 605117.SH

| Model                                              | SUN-3.6K-OG01LP1-EU-AM2                                                                                                                                                                                                                                             |       | SUN-5K-OG01LP1-EU-AM2 | SUN-6K-OG01LP1-EU-AM2 |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------|-----------------------|
| Battery Input Data                                 |                                                                                                                                                                                                                                                                     |       |                       |                       |
| Battery Type                                       | Lead-acid or Lithium-ion                                                                                                                                                                                                                                            |       |                       |                       |
| Battery Voltage Range (V)                          | 40-60                                                                                                                                                                                                                                                               |       |                       |                       |
| Max. Charging Current (A)                          | 90                                                                                                                                                                                                                                                                  | 120   | 135                   |                       |
| Max. Discharging Current (A)                       | 90                                                                                                                                                                                                                                                                  | 120   | 135                   |                       |
| Charging Strategy for Li-ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                |       |                       |                       |
| Number of Battery Input                            | 1                                                                                                                                                                                                                                                                   |       |                       |                       |
| PV String Input Data                               |                                                                                                                                                                                                                                                                     |       |                       |                       |
| Max. PV Access Power (W)                           | 7200                                                                                                                                                                                                                                                                | 10000 | 12000                 |                       |
| Max. PV Input Power (W)                            | 5760                                                                                                                                                                                                                                                                | 8000  | 9600                  |                       |
| 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)                | 18+18                                                                                                                                                                                                                                                               |       |                       |                       |
| Max. Input Short-Circuit Current (A)               | 27+27                                                                                                                                                                                                                                                               |       |                       |                       |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 2/1+1                                                                                                                                                                                                                                                               |       |                       |                       |
| AC Output Data                                     |                                                                                                                                                                                                                                                                     |       |                       |                       |
| Rated AC Output Power (VA/W)                       | 3600                                                                                                                                                                                                                                                                | 5000  | 6000                  |                       |
| Max. AC Output Power (VA/W)                        | 3600                                                                                                                                                                                                                                                                | 5000  | 6000                  |                       |
| Max. AC Output Current (A)                         | 15.7                                                                                                                                                                                                                                                                | 21.8  | 26.1                  |                       |
| Peak Power (W)                                     | 2 times of rated power, 10s                                                                                                                                                                                                                                         |       |                       |                       |
| Rated Output Voltage (V)                           | 230                                                                                                                                                                                                                                                                 |       |                       |                       |
| Output Type                                        | L+N+PE                                                                                                                                                                                                                                                              |       |                       |                       |
| Rated Output Frequency (Hz)                        | 50/60                                                                                                                                                                                                                                                               |       |                       |                       |
| Output Voltage Waveform                            | Pure Sine Wave                                                                                                                                                                                                                                                      |       |                       |                       |
| Total Current Harmonic Distortion THDi             | <3%                                                                                                                                                                                                                                                                 |       |                       |                       |
| AC Input Data (Grid and Generator)                 |                                                                                                                                                                                                                                                                     |       |                       |                       |
| Max. Input Power to Battery (W)                    | 3600                                                                                                                                                                                                                                                                | 5000  | 6000                  |                       |
| Rated Input Voltage/Range (V)                      | 230                                                                                                                                                                                                                                                                 |       |                       |                       |
| Rated Input Frequency (Hz)                         | 50/60                                                                                                                                                                                                                                                               |       |                       |                       |
| Grid Input Current (A)                             | 35                                                                                                                                                                                                                                                                  |       |                       |                       |
| Generator Input Current (A)                        | 35                                                                                                                                                                                                                                                                  |       |                       |                       |
| 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 (AFCI),DC Switch, Insulation Impedance 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 ( )                    | -40 to +60°C, >45°C Derating                                                                                                                                                                                                                                        |       |                       |                       |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                              |       |                       |                       |
| Permissible Altitude                               | 3000m                                                                                                                                                                                                                                                               |       |                       |                       |
| Noise (dB)                                         | <55                                                                                                                                                                                                                                                                 |       |                       |                       |
| Ingress Protection(IP) Rating                      | IP 65                                                                                                                                                                                                                                                               |       |                       |                       |
| Inverter Topology                                  | Non-Isolated                                                                                                                                                                                                                                                        |       |                       |                       |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                                                                                                                                                                                                                             |       |                       |                       |
| Cabinet Size (WxHxD mm)                            | 306×427.5×175.77 (Excluding Connectors and Brackets)                                                                                                                                                                                                                |       |                       |                       |
| Weight (kg)                                        | 12.2                                                                                                                                                                                                                                                                |       |                       |                       |
| Type of Cooling                                    | Intelligent Air Cooling                                                                                                                                                                                                                                             |       |                       |                       |
| Warranty                                           | 5 Years/10 Years<br>the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy                                                                                                                                  |       |                       |                       |
| Safety / EMC Standard                              | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                                                                                                                                                              |       |                       |                       |