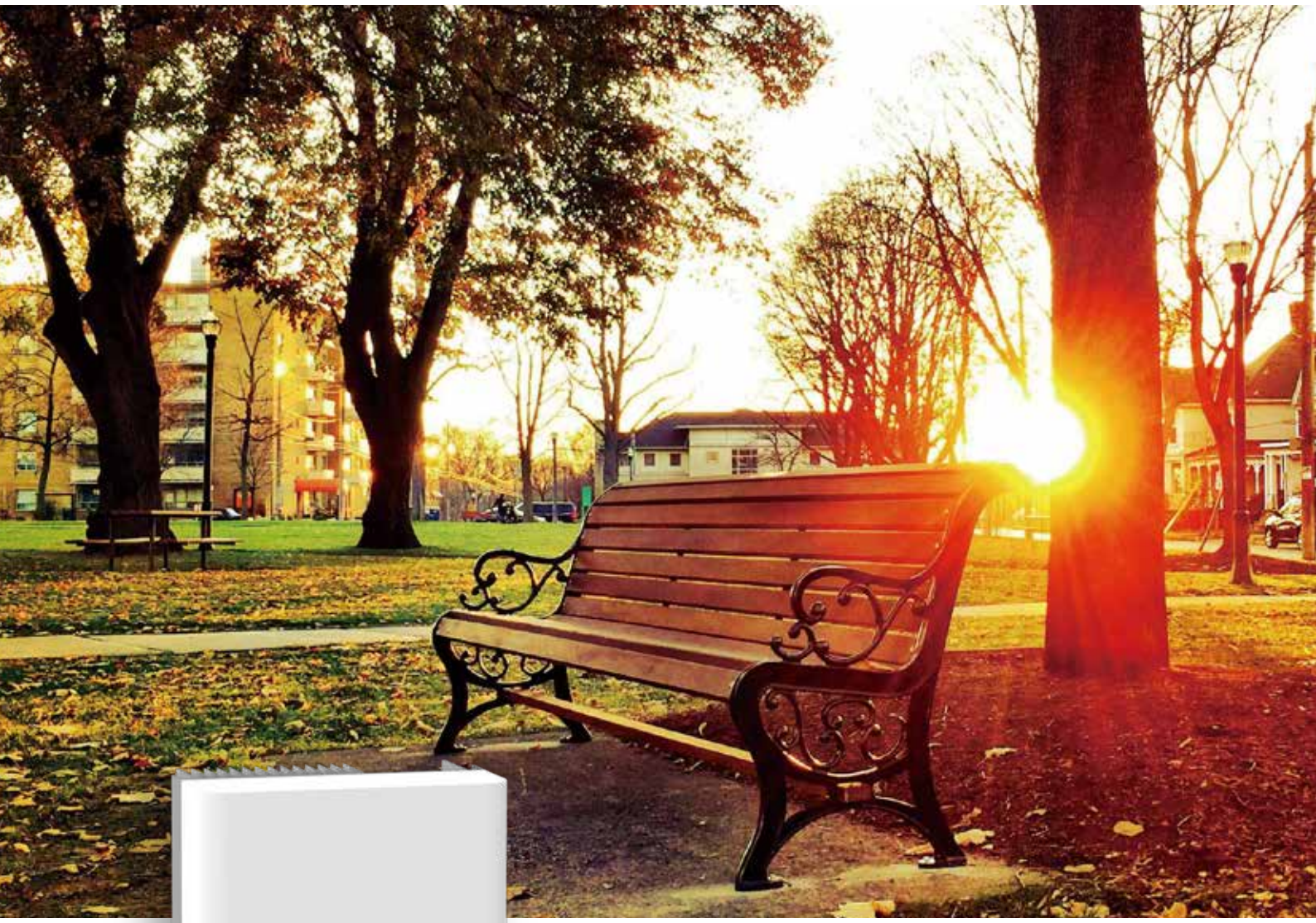
# Three Phase String Inverter

## SUN-18/20/25K-G04 SUN-18/20/25K-G05





- 2 MPP trackers, Max. efficiency up to 98.6%
- Zero export application, VSG application
- String intelligent monitoring (optional)
- Wide output voltage range
- Anti-PID function (Optional)

Deye

Stock Code: 605117.SH

# Technical Data

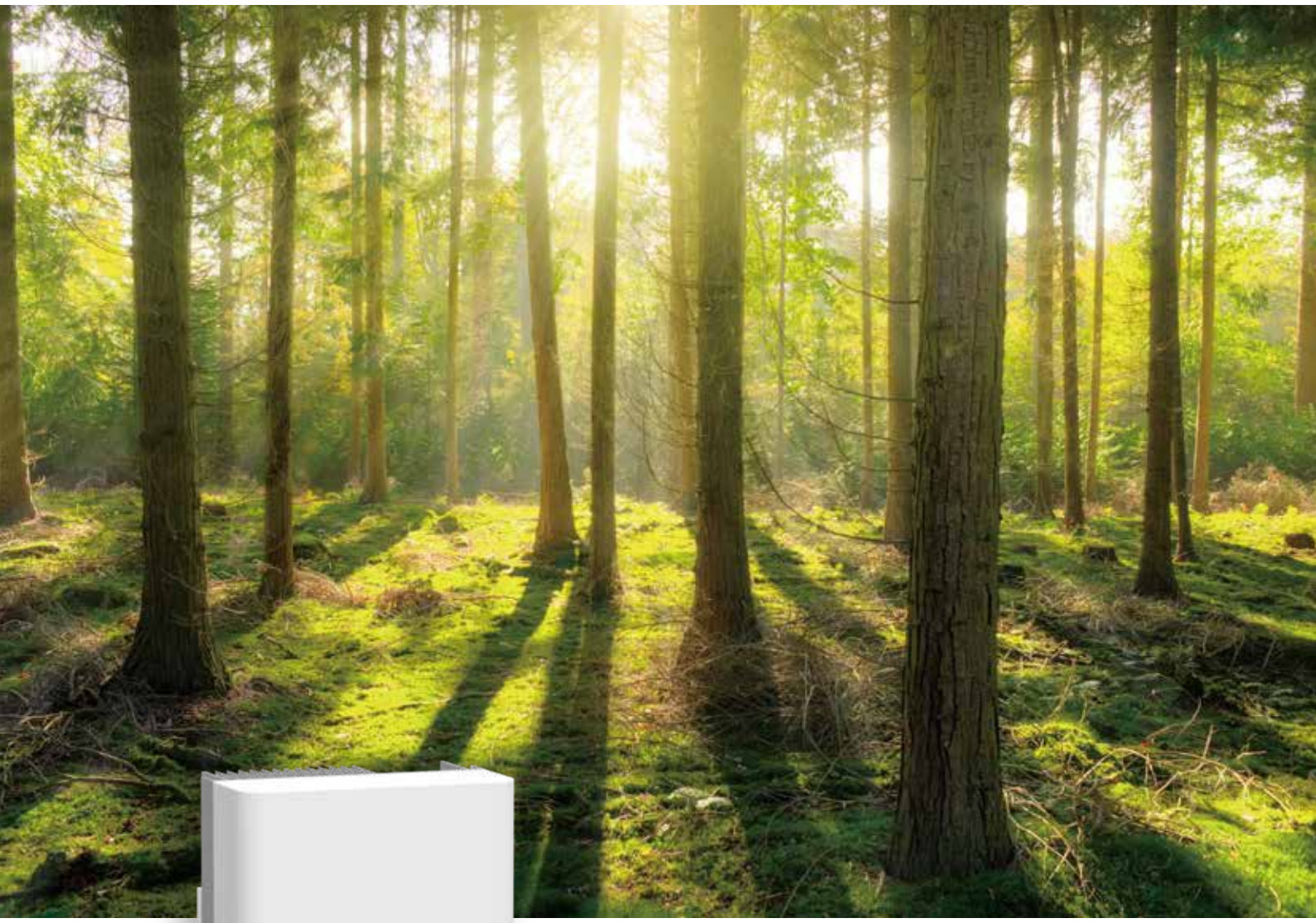


| Model | SUN-18K-G04 | SUN-20K-G04 | SUN-25K-G04 | SUN-18K-G05 | SUN-20K-G05 | SUN-25K-G05 |
|---|---|---|---|---|---|---|
| **Input Side** | | | | | | |
| Max. DC Input Power (kW) | 23.4 | 26 | 32.5 | 23.4 | 26 | 32.5 |
| Max. DC Input Voltage (V) | 1000 | | | | | |
| Start-up DC Input Voltage (V) | 250 | | | | | |
| MPPT Operating Range (V) | 200-850 | | | | | |
| Max. DC Input Current (A) | 32+32 | | | 26+26 | | |
| Max. Short Circuit Current (A) | 48+48 | | | 39+39 | | |
| No.of MPP Trackers | 2 | | | | | |
| No.of Strings per MPP Tracker | 3+3 | | | 2+2 | | |
| **Output Side** | | | | | | |
| Rated Output Power (kW) | 18 | 20 | 25 | 18 | 20 | 25 |
| Max. Active Power (kW) | 19.8 | 22 | 27.5 | 19.8 | 22 | 27.5 |
| Rated Output Voltage/Range (V) | 3L/N/PE 220/380V, 230/400V 0.85Un-1.1Un (this may vary with grid standards) | | | | | |
| Rated Grid Frequency (Hz) | 50 / 60 (Optional) | | | | | |
| Operating Phase | Three Phase | | | | | |
| Rated AC Grid Output Current (A) | 27.3/26.1 | 30.3/29 | 37.9/36.2 | 27.3/26.1 | 30.3/29 | 37.9/36.2 |
| Max. AC Output Current (A) | 30/28.7 | 33.3/31.9 | 41.7/39.8 | 30/28.7 | 33.3/31.9 | 41.7/39.8 |
| Output Power Factor | 0.8 leading to 0.8 lagging | | | | | |
| Total Harmonics Current Distortion (THDi) | <3% | | | | | |
| DC Injection Current (mA) | <0.5% | | | | | |
| Grid Frequency Range | 45~55 or 55~65 (Optional) | | | | | |
| **Efficiency** | | | | | | |
| Max. Efficiency | 98.6% | | | | | |
| Euro Efficiency | 97.8% | | | | | |
| MPPT Efficiency | >99% | | | | | |
| **Protection** | | | | | | |
| DC Reverse-Polarity Protection | Yes | | | | | |
| AC Short Circuit Protection | Yes | | | | | |
| AC Output Overcurrent Protection | Yes | | | | | |
| Output Overvoltage Protection | Yes | | | | | |
| Insulation Resistance Protection | Yes | | | | | |
| Ground Fault Monitoring | Yes | | | | | |
| Anti-islanding Protection | Yes | | | | | |
| Temperature Protection | Yes | | | | | |
| Integrated DC Switch | Yes | | | | | |
| Remote Software Upload | Yes | | | | | |
| Remote Change of Operating Parameters | Yes | | | | | |
| Surge Protection | DC Type II / AC Type II | | | | | |
| **General Data** | | | | | | |
| Cabinet Size (WxHxD mm) | 362×577×215 (Excluding Connectors and Brackets) | | | 362×527×220 (Excluding Connectors and Brackets) | | |
| Weight (kg) | 23 | | | 20 | | |
| Topology | Transformerless | | | | | |
| Internal Consumption | <1W (Night) | | | | | |
| Running Temperature | -25-65°C, >45°C Derating | | | | | |
| Ingress Protection | IP65 | | | | | |
| Noise Emission (Typical) | ≤40 dB | | | | | |
| Cooling Concept | Smart Cooling | | | | | |
| Permissible Altitude (m) | 2000 | | | 4000 | | |
| Warranty | 5 Years | | | | | |
| Grid Connection Standard | IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105 | | | | | |
| Operating Surroundings Humidity | 0-100% | | | | | |
| Safety EMC / Standard | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 | | | | | |
| **Features** | | | | | | |
| Display | LCD1602 | | | | | |
| Interface | RS485/RS232/Wifi/LAN | | | | | |

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# Three Phase String Inverter

## SUN-30/33/35/36K-G04





- 2 MPP trackers, Max. efficiency up to 98.6%
- Zero export application, VSG application
- String intelligent monitoring (optional)
- Wide output voltage range
- Anti-PID function (Optional)

Deye

Stock Code: 605117.SH

# Technical Data



| Model | SUN-30K-G04 | SUN-33K-G04 | SUN-35K-G04 | SUN-36K-G04 |
|---|---|---|---|---|
| **Input Side** | | | | |
| Max. DC Input Power (kW) | 39 | 42.9 | 45.5 | 46.8 |
| Max. DC Input Voltage (V) | 1000 | | | |
| Start-up DC Input Voltage (V) | 250 | | | |
| MPPT Operating Range (V) | 200-850 | | | |
| Max. DC Input Current (A) | 40+40 | | | |
| Max. Short Circuit Current (A) | 60+60 | | | |
| No.of MPP Trackers | 2 | | | |
| No.of Strings per MPP Tracker | 3+3 | | | |
| **Output Side** | | | | |
| Rated Output Power (kW) | 30 | 33 | 35 | 36 |
| Max. Active Power (kW) | 33 | 36.3 | 38.5 | 39.6 |
| Rated Output Voltage/Range (V) | 3L/N/PE 220/380V, 230/400V 0.85Un-1.1Un (this may vary with grid standards) | | | |
| Rated Grid Frequency (Hz) | 50 / 60 (Optional) | | | |
| Operating Phase | Three Phase | | | |
| Rated AC Grid Output Current (A) | 45.5/43.5 | 50/47.8 | 53/50.7 | 54.5/52.2 |
| Max. AC Output Current (A) | 50/47.9 | 55/52.6 | 58.3/55.8 | 60/57.4 |
| Output Power Factor | 0.8 leading to 0.8 lagging | | | |
| Total Harmonics Current Distortion (THDi) | <3% | | | |
| DC Injection Current (mA) | <0.5% | | | |
| Grid Frequency Range | 45~55 or 55~65 (Optional) | | | |
| **Efficiency** | | | | |
| Max. Efficiency | 98.6% | | | |
| Euro Efficiency | 97.8% | | | |
| MPPT Efficiency | >99% | | | |
| **Protection** | | | | |
| DC Reverse-Polarity Protection | Yes | | | |
| AC Short Circuit Protection | Yes | | | |
| AC Output Overcurrent Protection | Yes | | | |
| Output Overvoltage Protection | Yes | | | |
| Insulation Resistance Protection | Yes | | | |
| Ground Fault Monitoring | Yes | | | |
| Anti-islanding Protection | Yes | | | |
| Temperature Protection | Yes | | | |
| Integrated DC Switch | Yes | | | |
| Remote Software Upload | Yes | | | |
| Remote Change of Operating Parameters | Yes | | | |
| Surge Protection | DC Type II / AC Type II | | | |
| **General Data** | | | | |
| Cabinet Size (WxHxD mm) | 362×577×215 (Excluding Connectors and Brackets) | | | |
| Weight (kg) | 23 | | | |
| Topology | Transformerless | | | |
| Internal Consumption | <1W (Night) | | | |
| Running Temperature | -25-65°C, >45°C Derating | | | |
| Ingress Protection | IP65 | | | |
| Noise Emission (Typical) | ≤50 dB | | | |
| Cooling Concept | Smart Cooling | | | |
| Permissible Altitude (m) | 2000 | | | |
| Warranty | 5 Years | | | |
| Grid Connection Standard | IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105 | | | |
| Operating Surroundings Humidity | 0-100% | | | |
| Safety EMC / Standard | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 | | | |
| **Features** | | | | |
| Display | LCD1602 | | | |
| Interface | RS485/RS232/Wifi/LAN | | | |

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