

Three Phase String Inverter

SUN- 30 / 33 / 35 / 40 / 50 / 60 K-G03



Max. 4 MPPT trackers, Max. efficiency up to 98.7%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)

Deye

Stock Code: 605117.SH

| Model | SUN-30K-G03 | SUN-33K-G03 | SUN-35K-G03 | SUN-40K-G03 | SUN-50K-G03 | SUN-60K-G03 |
|--|---|-------------|-------------|-------------|-------------|-------------|
| Input Side | | | | | | |
| Max. DC Input Power (kW) | 39 | 42.9 | 45.5 | 52 | 65 | 78 |
| 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 | 40+40+40 | | | 40+40+40+40 | |
| Max. Short Circuit Current (A) | 60+60 | 60+60+60 | | | 60+60+60+60 | |
| Number of MPPT / Strings per MPPT | 2/3 | 3/3 | | | 4/3 | |
| Output Side | | | | | | |
| Rated Output Power (kW) | 30 | 33 | 35 | 40 | 50 | 60 |
| Max. Active Power (kW) | 33 | 36.3 | 38.5 | 44 | 55 | 66 |
| Nominal Output Voltage / Range (V) | 3L/N/PE 380V/0.85Un-1.1Un, 400V/0.85Un-1.1Un | | | | | |
| Rated Grid Frequency (Hz) | 50 / 60 (Optional) | | | | | |
| Operating Phase | Three phase | | | | | |
| Rated AC Grid Output Current (A) | 43.5 | 47.8 | 50.7 | 58 | 72.5 | 87 |
| Max. AC Output Current (A) | 47.9 | 52.6 | 55.8 | 63.8 | 79.7 | 95.7 |
| Output Power Factor | 0.8 leading to 0.8 lagging | | | | | |
| Grid Current THD | <3% | | | | | |
| DC Injection Current (mA) | <0.5% | | | | | |
| Grid Frequency Range | 47~52 or 57~62 (Optional) | | | | | |
| Efficiency | | | | | | |
| Max. Efficiency | 98.7% | | | | | |
| Euro Efficiency | 98% | | | | | |
| 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 | | | | | | |
| Size (mm) | 647.5W×537H×303.5D | | | | | |
| Weight (kg) | 44.5 | | | | | |
| Topology | Transformerless | | | | | |
| Internal Consumption | <1W (Night) | | | | | |
| Running Temperature | -25~65°C, >45°C derating | | | | | |
| Ingress Protection | IP65 | | | | | |
| Noise Emission (Typical) | <45 dB | | | | | |
| Cooling Concept | Smart cooling | | | | | |
| Max. Operating Altitude Without Derating | 2000m | | | | | |
| Warranty | 5 years | | | | | |
| Grid Connection Standard | CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11 | | | | | |
| 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 | | | | | | |
| DC Connection | MC-4 mateable | | | | | |
| AC Connection | IP65 rated plug | | | | | |
| Display | LCD 240 × 160 | | | | | |
| Interface | RS485/RS232/Wifi/LAN | | | | | |