






Three Phase String Inverter

SUN-4 / 5 / 6 / 7 / 8 / 10 / 12 K-G05



-  2 MPP trackers, Max. efficiency up to 98.3%
-  Zero export application, VSG application
-  String intelligent monitoring (optional)
-  Wide output voltage range
-  Anti-PID function (Optional)

Deye

Stock Code: 605117.SH

| Model | SUN-4K-G05 | SUN-5K-G05 | SUN-6K-G05 | SUN-7K-G05 | SUN-8K-G05 | SUN-10K-G05 | SUN-12K-G05 |
|--|---|------------|------------|------------|------------|-------------|-------------|
| Input Side | | | | | | | |
| Max. DC Input Power (kW) | 5.2 | 6.5 | 7.8 | 9.1 | 10.4 | 13 | 15.6 |
| Max. DC Input Voltage (V) | 1000 | | | | | | |
| Start-up DC Input Voltage (V) | 140 | | | | | | 250 |
| MPPT Operating Range (V) | 120~850 | | | | | | 200~850 |
| Max. DC Input Current (A) | 13+13 | | | | | | |
| Max. Short Circuit Current (A) | 19.5+19.5 | | | | | | |
| Number of MPPT / Strings per MPPT | 2/1 | | | | | | |
| Output Side | | | | | | | |
| Rated Output Power (kW) | 4 | 5 | 6 | 7 | 8 | 10 | 12 |
| Max. Active Power (kW) | 4.4 | 5.5 | 6.6 | 7.7 | 8.8 | 11 | 13.2 |
| 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) | 5.8 | 7.2 | 8.7 | 10.1 | 11.6 | 14.5 | 17.4 |
| Max. AC Output Current (A) | 6.4 | 8 | 9.6 | 11.2 | 12.8 | 15.9 | 19.1 |
| 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 | 98.3% | | | | | | |
| Euro Efficiency | 97.5% | | | | | | |
| 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) | 330W×457H×185D | | | | | | 330×457×205 |
| Weight (kg) | 10 | | | | | | 11 |
| Topology | Transformerless | | | | | | |
| Internal Consumption | <1W (Night) | | | | | | |
| Running Temperature | -25~65°C, >45°C derating | | | | | | |
| Ingress Protection | IP65 | | | | | | |
| Noise Emission (Typical) | <25 dB | | | | | | |
| Cooling Concept | Natural 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 | LCD1602 | | | | | | |
| Interface | RS485/RS232/Wifi/LAN | | | | | | |