






Three Phase String Inverter

SUN-15/17K-G05



-  2 MPP trackers, Max. efficiency up to 98.5%
-  Zero export application, VSG application
-  String intelligent monitoring (optional)
-  Wide output voltage range
-  Anti-PID function (Optional)

Technical Data

| Model | SUN-15K-G05 | SUN-17K-G05 |
|---------------------------------------|---|-------------|
| Input Side | | |
| Max. DC Input Power (kW) | 19.5 | 22.1 |
| Max. DC Input Voltage (V) | 1000 | |
| Start-up DC Input Voltage (V) | 250 | |
| MPPT Operating Range (V) | 200-850 | |
| Max. DC Input Current (A) | 13+26 | |
| Max. Short Circuit Current (A) | 19.5+39 | |
| No. of MPP Trackers | 2 | |
| No. of Strings per MPP Tracker | 1+2 | |
| Output Side | | |
| Rated Output Power (kW) | 15 | 17 |
| Max. Active Power (kW) | 16.5 | 18.7 |
| 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) | 22.7/21.7 | 25.8/24.6 |
| Max. AC Output Current (A) | 25/23.9 | 28.3/27.1 |
| Power Factor Adjustment Range | 0.8 leading to 0.8 lagging | |
| Total Harmonics Distortion (THDi) | <3% | |
| DC Injection Current (mA) | <0.5% | |
| Grid Frequency Range | 45-55 or 55-65 (Optional) | |
| Efficiency | | |
| Max. Efficiency | 98.5% | |
| 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 | | |
| Cabinet Size (WxHxD mm) | 333x472x203 (Excluding Connectors and Brackets) | |
| Weight (kg) | 15 | |
| Topology | Transformerless | |
| Internal Consumption | <1W (Night) | |
| Running Temperature | -25 to +65°C, >45°C Derating | |
| Ingress Protection | IP65 | |
| Noise Emission (Typical) | ≤40 dB | |
| Cooling Concept | Smart Cooling | |
| Permissible Altitude (m) | 4000 | |
| Warranty | 5 Years | |
| Grid Connection Standard | IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, G98, G99, VDE 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 | |