

Three Phase String Inverter

SUN-18/20/22/23/25K-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

| Model | SUN-18K-G05 | SUN-20K-G05 | SUN-22K-G05 | SUN-23K-G05 | SUN-25K-G05 |
|--|---|-------------|-------------|-------------|-------------|
| PV String Input Data | | | | | |
| Max. PV Input Power (kW) | 23.4 | 26 | 28.6 | 29.9 | 32.5 |
| Max. PV Input Voltage (V) | 1000 | | | | |
| Start-up Voltage (V) | 250 | | | | |
| MPPT Voltage Range (V) | 200-1000 | | | | |
| Rated PV Input Voltage (V) | 600 | | | | |
| Max. Operating PV Input Current (A) | 26+26 | | | | |
| Max. Input Short Circuit Current (A) | 39+39 | | | | |
| No. of MPP Trackers/ No. of Strings per MPP Tracker | 2/2+2 | | | | |
| AC Output Side | | | | | |
| Rated AC Output Active Power (kW) | 18 | 20 | 22 | 23 | 25 |
| Max. AC Output Apparent Power (kVA) | 19.8 | 22 | 24.2 | 25.3 | 27.5 |
| Rated AC Output Current (A) | 27.3/26.1 | 30.3/29 | 33.4/31.9 | 34.9/33.4 | 37.9/36.2 |
| Max. AC Output Current (A) | 30/28.7 | 33.3/31.9 | 36.7/35.1 | 38.4/36.7 | 41.7/39.8 |
| Rated Output Voltage/Range (V) | 220/380V, 230/400V 0.85Un-1.1Un | | | | |
| Grid Connection Form | 3L/N/PE | | | | |
| Rated Output Grid Frequency/Range(Hz) | 50/45-55, 60/55-65 | | | | |
| Power Factor Adjustment Range | 0.8 leading to 0.8 lagging | | | | |
| Total Current Harmonic Distortion THDi | <3% | | | | |
| DC Injection Current | <0.5In | | | | |
| Efficiency | | | | | |
| Max. Efficiency | 98.5% | | | | |
| Euro Efficiency | 98% | | | | |
| MPPT Efficiency | >99% | | | | |
| Equipment Protection | | | | | |
| DC Polarity Reverse Connection Protection | Yes | | | | |
| AC Output Overcurrent Protection | Yes | | | | |
| AC Output Overvoltage Protection | Yes | | | | |
| AC Output Short Circuit Protection | Yes | | | | |
| Thermal Protection | Yes | | | | |
| DC Terminal Insulation Impedance Monitoring | Yes | | | | |
| DC Component Monitoring | Yes | | | | |
| Ground Fault Current Monitoring | Yes | | | | |
| Power Network Monitoring | Yes | | | | |
| Island Protection Monitoring | Yes | | | | |
| Earth Fault Detection | Yes | | | | |
| Overvoltage Load Drop Protection | Yes | | | | |
| Residual Current (RCD) Detection | Yes | | | | |
| Surge Protection Level | TYPE II(DC), TYPE II(AC) | | | | |
| Interface | | | | | |
| Communication Interface | RS485/RS232 | | | | |
| Monitor Mode | GPRS/WIFI/Bluetooth/4G/LAN(optional) | | | | |
| General Data | | | | | |
| Operating Temperature Range (°C) | -25 to +60°C, >45°C Derating | | | | |
| Permissible Ambient Humidity | 0-100% | | | | |
| Permissible Altitude (m) | 4000m | | | | |
| Noise (dB) | ≤50 | | | | |
| Ingress Protection(IP) Rating | IP 65 | | | | |
| Inverter Topology | Non-Isolated | | | | |
| Over Voltage Category | OVC II(DC), OVC III(AC) | | | | |
| Cabinet Size (WxHxD mm) | 362×527×220 (Excluding Connectors and Brackets) | | | | |
| Weight (kg) | 20 | | | | |
| Warranty | 5 Years | | | | |
| Type of Cooling | Intelligent Air Cooling | | | | |
| Grid Regulation | IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105 | | | | |
| Safety EMC/Standard | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 | | | | |