

Three Phase String Inverter(LV)

SUN-18/20/21K-G04-LV



- LV** 127V/220V, 133V/230V and 50/60Hz, Three phase system
- ▲** 2 MPP trackers, Max. efficiency up to 98.6%
- F** Zero export application, VSG application
- ▲** String intelligent monitoring (optional)
- ~** Wide output voltage range
- PID** Anti-PID function (Optional)

Deye

Stock Code: 605117.SH

| Model | SUN-18K-G04-LV | SUN-20K-G04-LV | SUN-21K-G04-LV |
|--|--|----------------|----------------|
| PV String Input Data | | | |
| Max. PV Input Power (kW) | 23.4 | 26 | 27.3 |
| Max. PV Input Voltage (V) | 800 | | |
| Start-up Voltage (V) | 250 | | |
| MPPT Voltage Range (V) | 200-700 | | |
| Rated PV Input Voltage (V) | 350 | | |
| Max. Operating PV Input Current (A) | 40+40 | | |
| Max. Input Short Circuit Current (A) | 60+60 | | |
| No. of MPP Trackers/ No. of Strings per MPP Tracker | 2/3+3 | | |
| AC Output Side | | | |
| Rated AC Output Active Power (kW) | 18 | 20 | 21 |
| Max. AC Output Apparent Power (kVA) | 18 | 20 | 21 |
| Rated AC Output Current (A) | 47.3/45.2 | 52.5/50.2 | 55.2/52.7 |
| Max. AC Output Current (A) | 47.3/45.2 | 52.5/50.2 | 55.2/52.7 |
| Rated Output Voltage/Range (V) | 127V/220V, 133V/230V 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 | 98.6% | | |
| 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 +65°C, >45°C Derating | | |
| Permissible Ambient Humidity | 0-100% | | |
| Permissible Altitude (m) | 2000m | | |
| 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) | 362×577×215 (Excluding Connectors and Brackets) | | |
| Weight (kg) | 23 | | |
| Warranty | 5 Years | | |
| Type of Cooling | Intelligent Air Cooling | | |
| Grid Regulation | NBR 16149, NBR 16150, EN 50549, RD 140 | | |
| Safety EMC/Standard | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 | | |