

Three Phase String Inverter(LV)

SUN-10/12/15K-G02-LV SUN-10/12/15/18/20/21K-G04-LV



- LV** 127/220Vac and 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-10K -G03-LV | SUN-12K -G02-LV | SUN-15K -G02-LV | SUN-10K -G04-LV | SUN-12K -G04-LV | SUN-15K -G04-LV | SUN-18K -G04-LV | SUN-20K -G04-LV | SUN-21K -G04-LV |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Input Side | | | | | | | | | |
| Max. DC Input Power (kW) | 13 | 15.6 | 19.5 | 13 | 15.6 | 19.5 | 23.4 | 26 | 27.3 |
| Max. DC Input Voltage (V) | 800 | | | | | | | | |
| Start-up DC Input Voltage (V) | 250 | | | | | | | | |
| MPPT Operating Range (V) | 200~700 | | | | | | | | |
| Max. DC Input Current (A) | 32+32 | | | 32+32 | | | 40+40 | | |
| Max. Short Circuit Current (A) | 48+48 | | | 48+48 | | | 60+60 | | |
| No.of MPP Trackers | 2 | | | 2 | | | 2 | | |
| No.of Strings per MPP Tracker | 3 | | | 2 | | | 3 | | |
| Output Side | | | | | | | | | |
| Rated Output Power (kW) | 10 | 12 | 15 | 10 | 12 | 15 | 18 | 20 | 21 |
| Max. Active Power (kW) | 11 | 13.2 | 16.5 | 10 | 12 | 15 | 18 | 20 | 21 |
| Nominal Output Voltage / Range (V) | 3L/N/PE 127V/220V | | | 3L/N/PE 133V/230V | | | | | |
| Rated Grid Frequency (Hz) | 60Hz/55Hz-65Hz | | | 50Hz/45Hz-55Hz | | | | | |
| Operating Phase | Three phase | | | | | | | | |
| Rated AC Grid Output Current (A) | 26.2 | 31.5 | 39.4 | 25.1 | 30.1 | 37.6 | 45.2 | 50.2 | 52.7 |
| Max. AC Output Current (A) | 28.9 | 34.6 | 43.3 | 25.1 | 30.1 | 37.6 | 45.2 | 50.2 | 52.7 |
| Output Power Factor | 0.8 leading to 0.8 lagging | | | | | | | | |
| Grid Current THD | <3% | | | | | | | | |
| DC Injection Current (mA) | <0.5% | | | | | | | | |
| Grid Frequency Range | 57~62 | | | | | | | | |
| Efficiency | | | | | | | | | |
| Max. Efficiency | 98.6% | | | | | | | | |
| 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) | 330W×508H×206D | | | | | | 362W×577H×215D | | |
| Weight (kg) | 20.8 | | | | | | 25.5 | | |
| Topology | Transformerless | | | | | | | | |
| Internal Consumption | <1W (Night) | | | | | | | | |
| Running Temperature | -25~65°C, >45°C derating | | | | | | | | |
| Ingress Protection | IP65 | | | | | | | | |
| Noise Emission (Typical) | ≤40 dB | | | | | | ≤50 dB | | |
| Cooling Concept | Smart cooling | | | | | | | | |
| Max. Operating Altitude Without Derating | 2000m | | | | | | | | |
| Warranty | 5 years | | | | | | | | |
| Grid Connection Standard | VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150 | | | | | | | | |
| 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 | | | | | | | | |