

Three Phase String Inverter

SUN-120/125/130/135/136K-G01P3-EU-AM8



8 MPP trackers, Max. efficiency up to 98.8%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)



Type II DC/AC SPD

Deye

Stock Code: 605117.SH

| Model | SUN-120K-G01P3 -EU-AM8 | SUN-125K-G01P3 -EU-AM8 | SUN-130K-G01P3 -EU-AM8 | SUN-135K-G01P3 -EU-AM8 | SUN-136K-G01P3 -EU-AM8 |
|---|--|---------------------------|---------------------------|---------------------------|---------------------------|
| Input Side | | | | | |
| Max. DC Input Power (kW) | 180 | 187.5 | 195 | 202.5 | 204 |
| Max. DC Input Voltage (V) | 1100 | | | | |
| Start-up DC Input Voltage (V) | 250 | | | | |
| MPPT Operating Range (V) | 200-1000 | | | | |
| Max. DC Input Current (A) | 40+40+40+40+40+40+40+40 | | | | |
| Max. Short Circuit Current (A) | 60+60+60+60+60+60+60+60 | | | | |
| No.of MPP Trackers | 8 | | | | |
| No.of Strings per MPP Tracker | 4+4+4+4+4+4+4+4 | | | | |
| Output Side | | | | | |
| Rated Output Power (kW) | 120 | 125 | 130 | 135 | 136 |
| Max. Active Power (kW) | 132 | 135 | 135 | 135 | 136 |
| Nominal Output Voltage / Range (V) | 3L/N/PE 220/380V, 230/400V | | | | |
| Rated Grid Frequency (Hz) | 50 / 60 (Optional) | | | | |
| Operating Phase | Three Phase | | | | |
| Rated AC Grid Output Current (A) | 181.9/174 | 189.4/181.2 | 197/188.5 | 204.6/195.7 | 206.1/197.2 |
| Max. AC Output Current (A) | 200/191.4 | 204.6/195.7 | 204.6/195.7 | 204.6/195.7 | 206.1/197.2 |
| Output Power Factor | >0.99 | | | | |
| Total Harmonics Current Distortion (THDi) | <3% | | | | |
| DC Injection Current (mA) | <0.5% | | | | |
| Grid Frequency Range | 45~55 or 55~65 (Optional) | | | | |
| Efficiency | | | | | |
| Max. Efficiency | 98.8% | | | | |
| Euro Efficiency | 98.3% | | | | |
| 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) | 1006×516×325.5 (Excluding Connectors and Brackets) | | | | |
| Weight (kg) | 103 | | | | |
| Topology | Transformerless | | | | |
| Internal Consumption | <1W (Night) | | | | |
| Running Temperature | -25-60°C, >45°C Derating | | | | |
| Ingress Protection | IP65 | | | | |
| Noise Emission (Typical) | ≤65 dB | | | | |
| Cooling Concept | Smart Cooling | | | | |
| Permissible Altitude (m) | 4000 | | | | |
| Designed Lifetime | >20 Years | | | | |
| Grid Connection Standard | IEC 61727, IEC 62116, CEI 0-21, CEI 0-16, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105, VDE-AR-N 4110 | | | | |
| 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 | LCD 240 × 160 | | | | |
| Interface | RS485/RS232/Wifi/LAN | | | | |