

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 |
|--|---|---------------------------|---------------------------|---------------------------|---------------------------|
| PV String Input Data | | | | | |
| Max. PV Input Power (kW) | 180 | 187.5 | 195 | 202.5 | 204 |
| Max. PV Input Voltage (V) | 1100 | | | | |
| Start-up Voltage (V) | 250 | | | | |
| MPPT Voltage Range (V) | 200-1000 | | | | |
| Rated PV Input Voltage (V) | 600 | | | | |
| Max. Operating PV Input Current (A) | 40+40+40+40+40+40+40+40 | | | | |
| Max. Input Short Circuit Current (A) | 60+60+60+60+60+60+60+60 | | | | |
| No. of MPP Trackers/ No. of Strings per MPP Tracker | 8/4+4+4+4+4+4+4+4 | | | | |
| AC Output Side | | | | | |
| Rated AC Output Active Power (kW) | 120 | 125 | 130 | 135 | 136 |
| Max. AC Output Apparent Power (kVA) | 132 | 135 | 135 | 135 | 136 |
| Rated AC 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 |
| 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 | <0.5%In | | | | |
| Efficiency | | | | | |
| Max. Efficiency | 98.8% | | | | |
| Euro Efficiency | 98.2% | | | | |
| 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 /WiFi/LAN | | | | |
| General Data | | | | | |
| Operating Temperature Range (°C) | -25 to +60°C, >45°C Derating | | | | |
| Permissible Ambient Humidity | 0-100% | | | | |
| Permissible Altitude (m) | 4000m | | | | |
| Noise (dB) | ≤65 | | | | |
| Ingress Protection(IP) Rating | IP 65 | | | | |
| Inverter Topology | Non-Isolated | | | | |
| Over Voltage Category | OVC II(DC), OVC III(AC) | | | | |
| Cabinet Size (WxHxD mm) | 1006×516×325.5 (Excluding Connectors and Brackets) | | | | |
| Weight (kg) | 103 | | | | |
| 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 | | | | |