

Three Phase String Inverter

SUN-4/5/6/7/8/10/12/15K-G06P3-EU-AM2-P1



2 MPP trackers, Max. efficiency up to 98.5%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)

Deye

Stock Code: 605117.SH

| Model | SUN-4K-G06P3 -EU-AM2-P1 | SUN-5K-G06P3 -EU-AM2-P1 | SUN-6K-G06P3 -EU-AM2-P1 | SUN-7K-G06P3 -EU-AM2-P1 | SUN-8K-G06P3 -EU-AM2-P1 | SUN-10K-G06P3 -EU-AM2-P1 | SUN-12K-G06P3 -EU-AM2-P1 | SUN-15K-G06P3 -EU-AM2-P1 |
|-------------------------------------------|-----------------------------------------------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Input Side | | | | | | | | |
| Max. DC Input Power (kW) | 5.2 | 6.5 | 7.8 | 9.1 | 10.4 | 13 | 15.6 | 19.5 |
| Max. DC Input Voltage (V) | 1100 | | | | | | | |
| Start-up DC Input Voltage (V) | 140 | | | | | | | |
| MPPT Operating Range (V) | 120-1000 | | | | | | | |
| Max. DC Input Current (A) | 20+20 | | | | | | | 20+26 |
| Max. Short Circuit Current (A) | 30+30 | | | | | | | 30+39 |
| No. of MPP Trackers | 2 | | | | | | | |
| No. of Strings per MPP Tracker | 1+1 | | | | | | | 1+2 |
| Output Side | | | | | | | | |
| Rated Output Power (kW) | 4 | 5 | 6 | 7 | 8 | 10 | 12 | 15 |
| Max. Active Power (kW) | 4.4 | 5.5 | 6.6 | 7.7 | 8.8 | 11 | 13.2 | 16.5 |
| Rated Output Voltage/Range (V) | 3L/N/PE 220/380V, 230/400V 0.85Un-1.1Un (this may vary with grid standards) | | | | | | | |
| Rated Grid Frequency (Hz) | 50 / 60 (Optional) | | | | | | | |
| Operating Phase | Three Phase | | | | | | | |
| Rated AC Grid Output Current (A) | 6.1/5.8 | 7.6/7.3 | 9.1/8.7 | 10.7/10.2 | 12.2/11.6 | 15.2/14.5 | 18.2/17.4 | 22.8/21.8 |
| Max. AC Output Current (A) | 6.7/6.4 | 8.4/8 | 10/9.6 | 11.7/11.2 | 13.4/12.8 | 16.7/16 | 20/19.2 | 25/24 |
| Power Factor Adjustment Range | 0.8 leading to 0.8 lagging | | | | | | | |
| Total Harmonics Current Distortion (THDi) | <3% | | | | | | | |
| DC Injection Current (mA) | <0.5% | | | | | | | |
| Grid Frequency Range | 45-55 or 55-65 (Optional) | | | | | | | |
| Efficiency | | | | | | | | |
| Max. Efficiency | 98.1% | 98.2% | | | 98.3% | | | 98.5% |
| Euro Efficiency | 97.5% | | | | | | | |
| 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) | 283×463×178 (Excluding connectors and brackets) | | | | | | | |
| Weight (kg) | 11 | | | | | | | |
| Topology | Transformerless | | | | | | | |
| Internal Consumption | <1W (Night) | | | | | | | |
| Running Temperature | -25 to +60°C, >45°C Derating | | | | | | | |
| Ingress Protection | IP65 | | | | | | | |
| Noise Emission (Typical) | <45 dB | | | | | | | |
| Cooling Concept | Free Cooling | | | | | | | Smart Cooling |
| Permissible Altitude (m) | 4000 | | | | | | | |
| Warranty | 5 Years | | | | | | | |
| Grid Connection Standard | IEC 61727, IEC 62116, EN 50549 | | | | | | | |
| 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 | LCD1602 | | | | | | | |
| Interface | RS485/RS232/Wifi/LAN | | | | | | | |