

GOODWE

SDT G2 Series

5-20kW | Three Phase | 2 MPPTs

The SDT G2 series of inverter from GoodWe is one of the best options available in the residential & commercial sectors owing to its technical strengths, which make it one of the most productive inverters in the market. Because of its high efficiency of (98.4%), the enhanced oversizing & overloading capabilities and the fact that it does not require a null line for installation, SDT G2 represents an outstanding improvement in the industry.



Up to 98.4% max. efficiency



150% DC input oversizing & 110% AC output overloading



Arc-fault circuit interrupter optional*



Easy installation and O&M

| Technical Data | GW5K-DT | GW6K-DT | GW5000-SDT-20 | GW6000-SDT-20 | GW8KAU-DT | GW9.9KAU-DT | GW10KAU-DT | GW15KAU-DT | GW20KAU-DT | |
|---|--|-----------------------------|-------------------------------------|---------------|---------------------------------|--------------------------------|-------------------|--------------|------------|--|
| Input | | | | | | | | | | |
| Max. Input Power (W) | 7500 | 9000 | 7500 | 9000 | 12000 | 15000 | 15000 | 22500 | 30000 | |
| Max. Input Voltage (V) | 1000 | | | | 1100 | | | | | |
| MPPT Operating Voltage Range (V) | 180 ~ 850 | | 140 ~ 950 | | | | | | | |
| Start-up Voltage (V) | 160 | | | | | 180 | | | | |
| Nominal Input Voltage (V) | | | | | 620 | | | | | |
| Max. Input Current per MPPT (A) | 12.5 | 16.0 | | | 30.0 | | | | | |
| Max. Short Circuit Current per MPPT (A) ¹ | 15.6 | 20.0 | | | 37.5 | | | | | |
| Number of MPP Trackers | | | | | 2 | | | | | |
| Number of Strings per MPPT | 1 | | | | | | 2 | | | |
| Output | | | | | | | | | | |
| Nominal Output Power (W) | 5000 | 6000 | 5000 | 6000 | 8000 | 9900 | 10000 | 15000 | 20000 | |
| Nominal Output Apparent Power (VA) | 5000 | 6000 | 5000 | 6000 | 8000 | 9900 | 10000 | 15000 | 20000 | |
| Max. AC Active Power (W) | 5500 | 6600 | 5500 | 6600 | 8800 | 9900 | 11000 | 16500 | 22000 | |
| Max. AC Apparent Power (VA) | 5500 | 6600 | 5500 | 6600 | 8800 | 9900 | 11000 | 16500 | 22000 | |
| Nominal Output Voltage (V) | 400, 3L / N / PE | | | | | | | | | |
| Output Voltage Range (V) (according to local standard) | 180 ~ 270 | | | | 180 ~ 260 | | | | | |
| Nominal AC Grid Frequency (Hz) | 50 / 60 | | | | 50 | | | | | |
| AC Grid Frequency Range (Hz) | 45 ~ 55 / 55 ~ 65 | | | | 47 ~ 52 | | | | | |
| Max. Output Current (A) | 8.0 | 9.6 | 8.0 | 9.6 | 12.8 | 14.4 | 16.0 | 24.0 | 31.9 | |
| Power Factor | ~ 1 (Adjustable from 0.8 leading to 0.8 lagging) | | | | | | | | | |
| Max. Total Harmonic Distortion | <3% | | | | | | | | | |
| Efficiency | | | | | | | | | | |
| Max. Efficiency | 98.2% | | | | 98.4% | | | | | |
| European Efficiency | 97.6% | | | | 97.5% | | | | | |
| Protection | | | | | | | | | | |
| PV Insulation Resistance Detection | Integrated | | | | | | | | | |
| Residual Current Monitoring | Integrated | | | | | | | | | |
| PV Reverse Polarity Protection | Integrated | | | | | | | | | |
| Anti-islanding Protection | Integrated | | | | | | | | | |
| AC Overcurrent Protection | Integrated | | | | | | | | | |
| AC Short Circuit Protection | Integrated | | | | | | | | | |
| AC Overvoltage Protection | Integrated | | | | | | | | | |
| DC Switch | Integrated | | | | | | | | | |
| DC Surge Protection | Type III | Type III (Type II Optional) | | | Type II | | | | | |
| AC Surge Protection | Type III | Type III (Type II Optional) | | | Type III | | | | | |
| AFCI | Optional | | | | | | | | | |
| Remote Shutdown | - | | | | | Optional | | | | |
| General Data | | | | | | | | | | |
| Operating Temperature Range (°C) | | | | | -30 ~ +60 | | | | | |
| Relative Humidity | | | | | 0 ~ 100% | | | | | |
| Max. Operating Altitude (m) | 3000 | | | | 4000 | | | | | |
| Cooling Method | Natural Convection | | | | | | Smart Fan Cooling | | | |
| User Interface | LCD, LED (Optional), WLAN + APP | | | | LCD, LED (Optional), WLAN + APP | | | | | |
| Communication | WiFi, RS485 or LAN (Optional) | | WiFi, RS485 or LAN or 4G (Optional) | | | WiFi, RS485 or LAN (Optional) | | | | |
| Communication Protocols | Modbus-RTU (SunSpec Compliant) | | - | | | Modbus-RTU (SunSpec Compliant) | | | | |
| Weight (kg) | 15.0 | | | | 20.5 | | 26.0 | | | |
| Dimension (W x H x D mm) | 354 x 433 x 147 | | | | 415 x 511 x 175 | | | | | |
| Topology | Non-isolated | | | | | | | | | |
| Self-consumption at Night (W) | <1 | | | | | | | | | |
| Ingress Protection Rating | IP65 | | | | | | | | | |
| DC Connector | | | | | MC4 (4 ~ 6mm ²) | | | | | |
| AC Connector | Plug and play connector | | | | | | | AC Connector | | |
| Country of Manufacture | China | | | | | | | | | |

¹: For Australia Max. Short Circuit Current per MPPT (A) please refer to 'Manufacturer declaration: short circuit current'.

*: All pictures shown are for reference only. Actual appearance may vary.

*: Optional functions or devices are purchased separately.

*: Please visit GoodWe website for the latest certificates.