

GOODWE

SDT G2 Series

4-15kW | Three Phase | 2 MPPTs

The GoodWe SDT Series is one of the best options available on the residential & commercial segments thanks to its technical strengths that make it one of the most efficient in the market. For enhanced safety, this inverter is able to incorporate AFCI. Its high efficiency (98.3%) and its enhanced oversizing & overloading capabilities represent an outstanding improvement in the industry. Moreover, its plug-in AC connector make operation & maintenance easier.



Up to 98.3% max. efficiency



150% DC input oversizing & 110% AC output overloading



Arc-fault circuit interrupter optional*



Easy installation and O&M

| Technical Data | GW4K-DT | GW5K-DT | GW6K-DT | GW8K-DT | GW10KT-DT | GW12KT-DT | GW15KT-DT |
|---|---|--------------|--------------|-------------------|--------------|--------------|--------------|
| Input | | | | | | | |
| Max. Input Voltage (V) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| MPPT Operating Voltage Range (V) | 180 ~ 850 | 180 ~ 850 | 180 ~ 850 | 180 ~ 850 | 180 ~ 850 | 180 ~ 850 | 180 ~ 850 |
| Start-up Voltage (V) | 160 | 160 | 160 | 160 | 160 | 160 | 160 |
| Nominal Input Voltage (V) | 620 | 620 | 620 | 620 | 620 | 620 | 620 |
| Max. Input Current per MPPT (A) | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 25 / 12.5 | 25 / 12.5 |
| Max. Short Circuit Current per MPPT (A) | 15.6 | 15.6 | 15.6 | 15.6 | 15.6 | 31.2 / 15.6 | 31.2 / 15.6 |
| Number of MPP Trackers | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Number of Strings per MPPT | 1 | 1 | 1 | 1 | 1 | 2 / 1 | 2 / 1 |
| Output | | | | | | | |
| Nominal Output Power (W) | 4000 | 5000 | 6000 | 8000 | 10000 | 12000 | 15000 |
| Nominal Output Apparent Power (VA) | 4000 | 5000 | 6000 | 8000 | 10000 | 12000 | 15000 |
| Max. AC Active Power (W) | 4400 | 5500 | 6600 | 8800 | 11000 | 13200 | 16500 |
| Max. AC Apparent Power (VA) | 4400 | 5500 | 6600 | 8800 | 11000 | 13200 | 16500 |
| Nominal Output Voltage (V) | 400, 3L / N / PE | | | | | | |
| Output Voltage Range (V) (according to local standard) | 180 ~ 270 | 180 ~ 270 | 180 ~ 270 | 180 ~ 270 | 180 ~ 270 | 180 ~ 270 | 180 ~ 270 |
| Nominal AC Grid Frequency (Hz) | 50 / 60 | 50 / 60 | 50 / 60 | 50 / 60 | 50 / 60 | 50 / 60 | 50 / 60 |
| AC Grid Frequency Range (Hz) | 45 ~ 55 / 55 ~ 65 | | | | | | |
| Max. Output Current (A) | 6.4 | 8.0 | 9.6 | 12.8 | 16.0 | 20.3 | 24.0 |
| Power Factor | ~1 (Adjustable from 0.8 leading to 0.8 lagging) | | | | | | |
| Max. Total Harmonic Distortion | <3% | <3% | <3% | <3% | <3% | <3% | <3% |
| Efficiency | | | | | | | |
| Max. Efficiency | 98.2% | 98.2% | 98.2% | 98.2% | 98.3% | 98.3% | 98.3% |
| European Efficiency | 97.6% | 97.6% | 97.6% | 97.6% | 97.7% | 97.7% | 97.7% |
| Protection | | | | | | | |
| PV Insulation Resistance Detection | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated |
| Residual Current Monitoring | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated |
| PV Reverse Polarity Protection | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated |
| Anti-islanding Protection | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated |
| AC Overcurrent Protection | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated |
| AC Short Circuit Protection | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated |
| AC Overvoltage Protection | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated |
| DC Switch | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated |
| DC Surge Protection | Type III | Type III | Type III | Type III | Type III | Type III | Type III |
| AC Surge Protection | Type III | Type III | Type III | Type III | Type III | Type III | Type III |
| AFCI | Optional | Optional | Optional | Optional | Optional | Optional | Optional |
| General Data | | | | | | | |
| Operating Temperature Range (°C) | -30 ~ +60 | -30 ~ +60 | -30 ~ +60 | -30 ~ +60 | -30 ~ +60 | -30 ~ +60 | -30 ~ +60 |
| Relative Humidity | 0 ~ 100% | 0 ~ 100% | 0 ~ 100% | 0 ~ 100% | 0 ~ 100% | 0 ~ 100% | 0 ~ 100% |
| Max. Operating Altitude (m) ^{*1} | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 |
| Cooling Method | Natural Convection | | | Smart Fan Cooling | | | |
| User Interface | LCD, LED (Optional), WLAN + APP | | | | | | |
| Communication | WiFi, RS485 or LAN (Optional) | | | | | | |
| Communication Protocols | Modbus-RTU (SunSpec Compliant) | | | | | | |
| Weight (kg) | 15.0 | 15.0 | 15.0 | 16.0 | 16.0 | 18.0 | 18.0 |
| Dimension (W x H x D mm) | 354 x 433 x 147 | | | 354 x 433 x 155 | | | |
| Noise Emission (dB) | <34 | <34 | <34 | <50 | <50 | <50 | <50 |
| Topology | Non-isolated | Non-isolated | Non-isolated | Non-isolated | Non-isolated | Non-isolated | Non-isolated |
| Self-consumption at Night (W) | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Ingress Protection Rating | IP65 | IP65 | IP65 | IP65 | IP65 | IP65 | IP65 |
| DC Connector | MC4 (4 ~ 6mm ²) | | | | | | |
| AC Connector | Plug and play connector | | | | | | |

*1: For Australia, Max. Operating Altitude (m) is 3000.
 *: Please visit GoodWe website for the latest certificates.

GoodWe-Single page-20230418-EN-V2.1. Information may be subject to change without notice during product improving.