

SDT G2 Series

4-15kW | 2 MPPTs | Three Phase

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



Easy for installation and O&M

| Technical Data | GW4K-DT | GW5K-DT | GW6K-DT | GW8K-DT | GW10KT-DT | GW12KT-DT | GW15KT-DT |
|---|---|-----------------|-----------------|-------------------|-----------------|-----------------|-----------------|
| PV String Input Data | | | | | | | |
| Max. DC Input Power (W) | 6000 | 7500 | 9000 | 12000 | 15000 | 18000 | 22500 |
| Max. DC 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 DC 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 / 12.5 | 12.5 / 12.5 | 12.5 / 12.5 | 12.5 / 25 | 12.5 / 25 |
| Max. Short Circuit Current per MPPT (A) | 15.6 / 15.6 | 15.6 / 15.6 | 15.6 / 15.6 | 15.6 / 15.6 | 15.6 / 15.6 | 15.6 / 31.2 | 15.6 / 31.2 |
| Number of MPPTs | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Number of Strings per MPPT | 1 / 1 | 1 / 1 | 1 / 1 | 1 / 1 | 1 / 1 | 1 / 2 | 1 / 2 |
| AC Output Data | | | | | | | |
| Nominal Output Power (W) | 4000 | 5000 | 6000 | 8000 | 10000 | 12000 | 15000 |
| Nominal Output Apparent Power(VA) | 4000 | 5000 | 6000 | 8000 | 10000 | 12000 | 15000 |
| Max. Output Apparent Power (VA) | 4400*1 | 5500*1 | 6600*1 | 8800*1 | 11000*1 | 14000*1 | 16500*1 |
| Nominal Output Voltage (V) | 400, 3L / N / PE | | | | | | |
| Nominal AC Grid Frequency (Hz) | 50 / 60 | 50 / 60 | 50 / 60 | 50 / 60 | 50 / 60 | 50 / 60 | 50 / 60 |
| Max. Output Current (A) | 6.4 | 8 | 9.6 | 12.8 | 16 | 20.3 | 24 |
| Nominal Output Current (A) | 5.8 | 7.2 | 8.7 | 11.6 | 14.5 | 17.3 | 21.7 |
| Output 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 | | | | | | | |
| Anti-Islanding Protection | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated |
| DC Reverse Polarity Protection | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated |
| DC Insulation Resistor Detection | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated |
| DC Surge Protection | Type III | | | | | | |
| AC Surge Protection | Type III | | | | | | |
| Residual Current Monitoring Unit | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated |
| AC Over Current Protection | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated |
| AC Short Circuit Protection | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated |
| AC Over Voltage Protection | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated |
| DC Arc Fault Circuit Interrupter | 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% |
| Operating Altitude (m) | ≤4000 | ≤4000 | ≤4000 | ≤4000 | ≤4000 | ≤4000 | ≤4000 |
| Cooling Method | Natural Convection | | | Smart Fan Cooling | | | |
| Display | LCD, LED / WiFi+App | | | | | | |
| Communication | WiFi / LAN / RS485 | | | | | | |
| Weight (Kg) | 15 | 15 | 15 | 16 | 16 | 18 | 18 |
| Size (Width x Height x Depth mm) | 354 x 433 x 147 | 354 x 433 x 147 | 354 x 433 x 147 | 354 x 433 x 155 | 354 x 433 x 155 | 354 x 433 x 155 | 354 x 433 x 155 |
| Ingress Protection Rating | IP65 | IP65 | IP65 | IP65 | IP65 | IP65 | IP65 |
| Night Power Consumption (W) | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| DC Connector | MC4 (2.5~4mm ²) | | | | | | |
| Topology | Transformerless | | | | | | |

*1: For Belgium Max. Output Apparent Power (VA); GW4K-DT is 4000; GW5K-DT is 5000; GW6K-DT is 6000; GW8K-DT is 8000; GW10KT-DT is 10000; GW12KT-DT is 12000; GW15KT-DT is 15000.
 *: Please visit GoodWe website for the latest certificates.