

SDT G2 Series

17-25kW | 2 MPPTs | Three Phase

The GoodWe 17-25kW SDT series inverter is especially designed for three-phase residential and small commercial projects. With its compact design, the SDT inverter is 45% smaller than the first generation. The inverter is also light and easy to install. The maximum efficiency of this inverter is as high as 98.4%. With an advanced ventilation system, the inverter is able to dissipate heat efficiently. In addition, it can be customised with an integrated LCD screen.



Compatible with bifacial modules



150% DC input oversizing



110% AC output overloading



Max. Efficiency 98.4%



Compact and light weight

| Technical Data | GW17KT-DT | GW20KT-DT | GW25KT-DT |
|---|---|---------------------|---------------------|
| PV String Input Data | | | |
| Max. DC Input Power (Wp) | 25500 | 30000 | 37500 |
| Max. DC Input Voltage (V) | 1100 | 1100 | 1100 |
| MPPT Operating Voltage Range (V) | 200~950 | 200~950 | 200~950 |
| Starting Voltage (V) | 180 | 180 | 180 |
| Nominal DC Input Voltage (V) | 620 | 620 | 620 |
| Max. Input Current per MPPT (A) | 25 / 25 | 25 / 25 | 37.5 / 25 |
| Max. Short Circuit Current per MPPT (A) | 31.2 / 31.2 | 31.2 / 31.2 | 46.8 / 31.2 |
| Number of MPPTs | 2 | 2 | 2 |
| Number of Strings per MPPT | 2 / 2 | 2 / 2 | 3 / 2 |
| AC Output Data | | | |
| Nominal Output Power (W) | 17000 | 20000 | 25000 |
| Nominal Output Apparent Power (VA) | 17000 | 20000 | 25000 |
| Max. Output Apparent Power (VA) | 19000*1 | 22000*1 | 27500*1 |
| Nominal Output Voltage (V) | | 400, 3L / N / PE | |
| Output Voltage Range (V) | 180~270 | 180~270 | 180~270 |
| Nominal AC Grid Frequency (Hz) | 50 / 60 | 50 / 60 | 50 / 60 |
| AC Grid Frequency Range (Hz) | 45~55 / 55~65 | 45~55 / 55~65 | 45~55 / 55~65 |
| Max. Output Current (A) | 28.8 | 31.9 | 40.8 |
| Nominal Output Current (A) | 24.5 | 28.9 | 36.1 |
| Output Power Factor | ~1 (Adjustable from 0.8 leading to 0.8 lagging) | | |
| Max. Total Harmonic Distortion | <3% | <3% | <3% |
| Efficiency | | | |
| Max. Efficiency | 98.4% | 98.4% | 98.4% |
| European Efficiency | >97.7% | >97.7% | >97.7% |
| Protection | | | |
| Anti-Islanding Protection | Integrated | Integrated | Integrated |
| DC Reverse Polarity Protection | Integrated | Integrated | Integrated |
| DC Insulation Resistor Detection | Integrated | Integrated | Integrated |
| DC Surge Arrester | Type III (Type II Optional) | | |
| AC Surge Arrester | Type III | | |
| Residual Current Monitoring Unit | Integrated | Integrated | Integrated |
| AC Over Current Protection | Integrated | Integrated | Integrated |
| AC Short Protection | Integrated | Integrated | Integrated |
| AC Over Voltage Protection | Integrated | Integrated | Integrated |
| DC Arc Fault Circuit Interrupter | Optional | Optional | Optional |
| General Data | | | |
| Operating Temperature Range (°C) | -30~60 | -30~60 | -30~60 |
| Relative Humidity | 0~100% | 0~100% | 0~100% |
| Operating Altitude (m) | ≤4000 | ≤4000 | ≤4000 |
| Cooling Method | Smart Fan Cooling | Smart Fan Cooling | Smart Fan Cooling |
| Display | LCD, LED / Wi-Fi+APP | LED+LCD / Wi-Fi+APP | LED+LCD / Wi-Fi+APP |
| Communication | WiFi / LAN / RS485 | | |
| Communication Protocol | SunSpec Modbus | | |
| Weight (Kg) | 25 | 25 | 25 |
| Size (Width × Height × Depth mm) | 415 × 511 × 175 | 415 × 511 × 175 | 415 × 511 × 175 |
| Ingress Protection Rating | IP65 | IP65 | IP65 |
| Night Power Consumption (W) | <1 | <1 | <1 |
| DC Connector | MC4 (2.5~4mm ²) | | |
| Topology | Transformerless | | |

*1: For Belgium Max. Output Apparent Power (VA): GW17KT-DT is 17000; GW20KT-DT is 20000; GW25KT-DT is 25000.

*: Please visit GoodWe website for the latest certificates.

