GOODWE



# SDT G3 Series

## 8-30kW I Three Phase I 2 MPPTs

The GoodWe SDT G3 Series, with a power range of 8-30kW, is specifically engineered to cater to the energy needs of three-phase residential and small commercial projects. The inverter boasts an impressive 150% DC oversizing capabilities, allowing for maximum performance and output even in challenging environments. In addition, the SDT G3 Series inverter's lightweight and easy-to-install design offers exceptional convenience for operators and installers alike.



### Smart Control & Monitoring

- 24/7 load consumption monitoring
- Export power limit

### Friendly & Thoughtful Design

- Fanless cooling for quiet operation[2]
- Elegant and compact design

### Superb Safety & Reliability

- Optional AFCI[1]
- IP66 ingress protection
- Optional Type II SPD on both AC and DC sides[1]

### Flexible & Adaptable Applications

- Up to 150% DC input oversizing
- Max. 22A DC input current per string
- Optional PID recovery[1]

1: Optional functions or devices are purchased separately.
2: For SDT G3 8-15kW only.

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| Technical Data | GW8000-SDT-30 | GW10K-SDT-30 | GW10K-SDT-EU30 | GW12K-SDT-30 | GW15K-SDT-30 | GW17K-SDT-30 | GW20K-SDT-30 | GW12KLV-SDT-C30 | GW17KLV-SDT-C30 | GW25K-SDT-C30 | GW30K-SDT-C30 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Input** | | | | | | | | | | | |
| Max. Input Voltage (V) | 1100 | | | | | | | 850 | | 1100 | |
| MPPT Operating Voltage Range (V) | 140 ~ 1000 | | | | | | | 140 ~ 700 | | 140 ~ 1000 | |
| Start-up Voltage (V) | 160 | | | | | | | | | | |
| Nominal Input Voltage (V) | 600 | | | | | | | 420 | | 600 | |
| Max. Input Current per MPPT (A) | 22 | | | | | 32 / 22 | | | 42 / 32 | 42 / 22 | 42 / 32 |
| Max. Short Circuit Current per MPPT (A) | 27.5 | | | | | 40.0 / 27.5 | | | 52.5 / 40.0 | 52.5 / 27.5 | 52.5 / 40.0 |
| Number of MPP Trackers | 2 | | | | | | | | | | |
| Number of Strings per MPPT | 1 | | | | | 2 / 1 | | | 2 | 2 / 1 | 2 |
| **Output** | | | | | | | | | | | |
| Nominal Output Power (W) | 8000 | 10000 | 10000 | 12000 | 15000 | 17000 | 20000 | 12000 | 17000 | 25000 | 30000 |
| Nominal Output Apparent Power (VA) | 8000 | 10000 | 10000 | 12000 | 15000 | 17000 | 20000 | 12000 | 17000 | 25000 | 30000 |
| Max. AC Active Power (W) | 8000 | 10000 | 10000 | 12000 | 15000 | 17000 | 20000 | 12000 | 17000 | 25000 | 30000 |
| Max. AC Apparent Power (VA) | 8000 | 10000 | 10000 | 12000 | 15000 | 17000 | 20000 | 12000 | 17000 | 25000 | 30000 |
| Nominal Output Voltage (V) | 220 / 380, 230 / 400, 240 / 415, 3L / N / PE or 3L / PE | | | | | | | 127 / 220, 3L / N / PE or 3L / PE | | 220 / 380, 230 / 400, 240 / 415, 3L / N / PE or 3L / PE | |
| Output Voltage Range (V) | 180 ~ 280 (according to local standard) | | | | | | | 114 ~ 139 (according to local standard) | | 180 ~ 280 (according to local standard) | |
| Nominal AC Grid Frequency (Hz) | 50 / 60 | | | | | | | 60 | | 50 / 60 | |
| AC Grid Frequency Range (Hz) | 45 ~ 55 / 55 ~ 65 | | | | | | | 59.5 ~ 60.2 | | 45 ~ 55 / 55 ~ 65 | |
| Max. Output Current (A) | 12.1 | 15.2 | 18.2 | 22.7 | 25.8 | 30.3 | 18.2 | 25.8 | 37.9 | 45.5 | 50.0 |
| Power Factor | ~1 (Adjustable from 0.8 leading to 0.8 lagging) | | | | | | | | | | |
| Max. Total Harmonic Distortion | <3% | | | | | | | | | | |
| **Efficiency** | | | | | | | | | | | |
| Max. Efficiency | 98.5% | 98.5% | 98.5% | 98.5% | 98.5% | 98.5% | 98.5% | 98.2% | 97.5% | 98.6% | 98.6% |
| European Efficiency | 98.0% | 98.0% | 98.0% | 98.2% | 98.2% | 98.2% | 98.2% | 97.2% | 96.9% | 98.2% | 98.3% |
| **Protection** | | | | | | | | | | | |
| PV String Current Monitoring | Integrated | | | | | | | | | | |
| 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 II Optional) | | | | | | | Type II | | Type III (Type II Optional) | |
| AC Surge Protection | Type III (Type II Optional) | | | | | | | | | | |
| AFCI | Optional | | | | | | | | | | |
| Emergency Power Off | Optional | | | | | | | | | | |
| Rapid Shutdown | Optional | | | | | | | | | | |
| Remote Shutdown | Optional | | | | | | | | | | |
| PID Recovery | Optional | | | | | | | | | | |
| Power Supply at Night | Optional | | | | | | | | | | |
| **General Data** | | | | | | | | | | | |
| Operating Temperature Range (°C) | -30 ~ +60 | | | | | | | | | | |
| Relative Humidity | 0 ~ 100% | | | | | | | | | | |
| Max. Operating Altitude (m) | 4000 | | | | | | | | | | |
| Cooling Method | Natural Convection | | | | | Smart Fan Cooling | | | | | |
| User Interface | LED, LCD (Optional), WLAN + APP | | | | | | | | | | |
| Communication | RS485, WiFi, LAN or 4G or Bluetooth (Optional) | | | | | | | | | | |
| Weight (kg) | 14.7 | 14.7 | 14.7 | 16.2 | 16.2 | 17.1 | 17.1 | 17.1 | 20.5 | 19.7 | 20.5 |
| Dimension (W × H × D mm) | 491 × 392 × 210 | | | | | 530 × 413 × 227 | | | | | |
| Noise Emission (dB) | <30 | | | | | <45 | | | | | |
| Topology | Non isolated | | | | | | | | | | |
| Self-consumption at Night (W) | <1 | | | | | | | | | | |
| Ingress Protection Rating | IP66 | | | | | | | | | | |
| DC Connector | MC4 (4 ~ 6mm²) | | | | | | | | | | |
| AC Connector | OT terminal (Max. 10mm²) | | | | | OT terminal (Max. 16mm²) | | | OT terminal (Max. 25mm²) | OT terminal (Max. 16mm²) | OT terminal (Max. 25mm²) |

*: Please visit GoodWe website for the latest certificates.
*: All pictures shown are for reference only. Actual appearance may vary.

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