



Smart DT Series (Dual-MPPT, Three-Phase)

GoodWe smart DT series inverter is typically designed for the home solar systems, covering 4kW/5kW/6kW. By adopting cutting-edge technology of photovoltaic field, it provides three phase AC output, making home system connection well balanced, safer and more convenient. The integrated two MPPTs allow two-array inputs from different roof orientations. And the combination of both RS485 and Wi-Fi communication makes the system well interactive and extremely easy to monitor.

- Maximum Efficiency up to 97.8%
- European Efficiency up to 96.7%
- MPPT Efficiency up to 99.9%
- DC switch
- IP65 dust-proof and water-proof
- 45°C full-load output
- Super large 5-inch LCD
- Lighter than similar products
- Multiple monitoring and communication
- Up to 80 pieces can be integrated in one system

Technical Data

| | GW4000-DT | GW5000-DT | GW6000-DT | GW8000-DT* | GW9000-DT* | GW10KN-DT* |
|---------------------------------------|--|-----------|-----------|-----------------------------|------------|------------|
| DC Input Data | | | | | | |
| Max. allowed PV Power [W] | 5200 | 6500 | 7800 | 9600 | 10800 | 12000 |
| Nominal DC Power [W] | 4200 | 5200 | 6200 | 8300 | 9400 | 10500 |
| Max. DC voltage [V] | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| MPPT voltage range [V] | 200~800 | 200~800 | 200~800 | 200~850 | 200~850 | 200~850 |
| Starting voltage [V] | 180 | 180 | 180 | 180 | 180 | 180 |
| Max. DC current [A] | 11/11 | 11/11 | 11/11 | 11/11 | 11/11 | 11/11 |
| No. of DC connectors | 2 | 2 | 2 | 2 | 2 | 2 |
| No. of MPPTs | 2 (can parallel) | | | 2 (can parallel) | | |
| DC connector | MC4/ Phoenix/ Amphenol | | | MC4/ Phoenix/ Amphenol | | |
| AC Output Data | | | | | | |
| Normal AC power [W] | 4000 | 5000 | 6000 | 8000 | 9000 | 10000 |
| Max. AC power [W] | 4000 | 5000 | 6000 | 8000 | 9000 | 10000 |
| Max. AC current [A] | 7 | 8.5 | 10 | 12.1 | 13.6 | 15.2 |
| Normal AC output | 50/60Hz; 400Vac | | | 50/60Hz; 400Vac | | |
| AC output range | 45~55Hz/55~65Hz; 310~480Vac | | | 45~55Hz/55~65Hz; 310~480Vac | | |
| THDi | <1.5% | | | <2% | | |
| Power factor | 0.8 leading~0.8 lagging | | | 0.80leading...0.80lagging | | |
| Grid connection | 3W/N/PE | | | 3W/N/PE | | |
| Efficiency | | | | | | |
| Max. efficiency | 98% | 98% | 98% | 98.3% | 98.3% | 98.3% |
| Euro efficiency | >97.5% | >97.5% | >97.5% | >98.0% | >98.0% | >98.0% |
| MPPT adaptation efficiency | 99.9% | 99.9% | 99.9% | 99.9% | 99.9% | 99.9% |
| Protection | | | | | | |
| Residual current monitoring unit | Integrated | | | Integrated | | |
| Anti-islanding protection | Integrated | | | Integrated | | |
| DC switch | Integrated (optional) | | | Integrated(optional) | | |
| AC over current protection | Integrated | | | Integrated | | |
| Insulation monitoring | Integrated | | | Integrated | | |
| Certifications & Standards | | | | | | |
| Grid regulation | VDE-AR-N 4105, AS4777.2, ERDF-NOI-RES_13E;VDE0126-1-1, EN50438, G83/2 | | | | | |
| Safety | IEC62109-1&-2 | | | | | |
| EMC | EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-3-2, EN 61000-3-3 | | | | | |
| General Data | | | | | | |
| Dimensions (WxHxD) [mm] | 516*474*192 | | | 516*474*192 | | |
| Weight [kg] | 24 | | | 24 | | |
| Mounting | Wall bracket | | | Wall bracket | | |
| Ambient temperature range | -25~60°C (>45°C derating) | | | -25~60°C (>45°C derating) | | |
| Relative humidity | 0~95% | | | 0~95% | | |
| Max. operating altitude | 4000m(> 3000m derating) | | | 4000m(> 3000m derating) | | |
| Protection degree | IP65 | | | IP65 | | |
| Topology | Transformerless | | | Transformerless | | |
| Night power consumption [W] | <1 | | | <1 | | |
| Cooling | Natural convection | | | Natural convection | | |
| Noise emission [dB] | <30 | | | <30 | | |
| Display | 5.0" LCD | | | 5.0" LCD | | |
| Communication | USB2.0; RS485 or WiFi | | | USB2.0; RS485 or WiFi | | |
| Standard warranty [years] | 5/10/15/20/25 (optional) | | | 5/10/15/20/25 (optional) | | |

*Available in Q2