



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

The GoodWe Smart DT series inverter is specially designed for three-phase home solar systems, covering a wide power range of 4kW, 5kW, 6kW, 8kW, 10kW, 12kW and 15kW. The integrated two MPPTs allow two-array inputs from different roof orientations.

The SDT series inverter is small, light and easy to install. Suitable for both outdoor and indoor installations, this inverter offers a quiet operation thanks to its fanless, natural convection cooling. In addition, the combination of both RS485 and Wi-Fi communication allows the system to be easily monitored and controlled.

- Easy wall mounting
- RS485 and Wi-Fi communication
- Fanless and quiet
- Super large 5-inch LCD
- IP65 dustproof and waterproof

Technical Data

GW4000-DT GW5000-DT GW6000-DT GW8000-DT GW10KN-DT GW12KN-DT GW15KN-DT

PV String Input Data

Max. DC Input Power (W)	5200	6500	7800	9600	12000	16800	19500
Max. DC Input Voltage (V)	1000	1000	1000	1000	1000	1000	1000
MPPT Range (V)	200~800	200~800	200~800	200~850	200~850	200~850	200~850
Start-up Voltage (V)	180	180	180	180	180	180	180
MPPT Range for Full Load (V)	195~800	240~800	285~800	380~850	480~850	380~850	480~850
Nominal DC Input Voltage (V)	620	620	620	620	620	620	620
Max. Input Current (A)	11/11	11/11	11/11	11/11	11/11	22/11	22/11
Max. Short Current (A)	13.8	13.8	13.8	13.8	13.8	27.6/13.8	27.6/13.8
No. of MPP Trackers	2	2	2	2	2	2	2
No. of Input Strings per Tracker	1/1	1/1	1/1	1/1	1/1	2/1	2/1

AC Output Data

Nominal Output Power (W)	4000	5000	6000	8000	10000	12000	15000
Max. Output Apparent Power (VA)	4000	5000	6000	8000	10000	14000	16500
Nominal Output Voltage (V)	400, 3L/N/PE	400, 3L/N/PE	400, 3L/N/PE	400, 3L/N/PE	400, 3L/N/PE	400, 3L/N/PE	400, 3L/N/PE
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Max. Output Current (A)	8.5	8.5	10	12.1	15.2	21.5	24
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)						
Output THDi (@Nominal Output)	<2%	<2%	<2%	<2%	<2%	<2%	<2%

Efficiency

Max. Efficiency	98.0%	98.0%	98.0%	98.3%	98.3%	98.3%	98.3%
Euro Efficiency	97.5%	97.5%	97.5%	98.0%	98.0%	98.0%	98.0%
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%

Protection

Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Insulation Resistor Detection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Output Over Current Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Output Short Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Output Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated

General Data

Operating Temperature Range (°C)	-25~60	-25~60	-25~60	-25~60	-25~60	-25~60	-25~60
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	Natural Convection						
Noise (dB)	<30	<30	<30	<30	<30	<30	<30
User Interface	LCD & LED	LCD & LED	LCD & LED	LCD & LED	LCD & LED	LCD & LED	LCD & LED
Communication	RS485 or WiFi	RS485 or WiFi	RS485 or WiFi	RS485 or WiFi	RS485 or WiFi	RS485 or WiFi	RS485 or WiFi
Weight (kg)	24	24	24	24	24	24	24
Size (Width*Height*Depth mm)	516*455*192	516*455*192	516*455*192	516*455*192	516*455*192	516*455*192	516*455*192
Protection Degree	IP65	IP65	IP65	IP65	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1	<1	<1	<1	<1
Topology	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless

Standards

Safety Regulation	IEC62109-1&2
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4