



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 98.3%
- European Efficiency up to 98.0%
- 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

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						
Nominal 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
Nominal 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	Wi-Fi; RS485 or Ethernet			Wi-Fi; RS485 or Ethernet		
Standard warranty [years]	5/10/15/20/25 (optional)			5/10/15/20/25 (optional)		