



Maximize Your Power & Savings



LCD

Super Large
5-inch LCD



Export Control



30% PV Oversizing



20% More Compact

Smart DT Series

Dual-MPPT, Three-Phase

4.0KW

5.0KW

6.0KW

8.0KW

10KW

12KW

15KW

17 KW

20KW

The GoodWe Smart DT series inverter is specially designed for three-phase home solar systems, covering a wide power range.

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.

Technical Data	GW4000-DT	GW5000-DT	GW6000-DT	GW8000-DT	GW10KN-DT
PV String Input Data					
Max. DC Input Power (W)	5200	6500	7800	9600	12000
Max. DC Input Voltage (V)	1000	1000	1000	1000	1000
MPPT Range (V)	200~800	200~800	200~800	200~850	200~850
Start-up Voltage (V)	180	180	180	180	180
Nominal DC Input Voltage (V)	620	620	620	620	620
Max. Input Current (A)	11/11	11/11	11/11	11/11	11/11
Max. Short Current (A)	13.8/13.8	13.8/13.8	13.8/13.8	13.8/13.8	13.8/13.8
No. of MPP Trackers	2	2	2	2	2
No. of Input Strings per Tracker	1/1	1/1	1/1	1/1	1/1
AC Output Data					
Nominal Output Power (W)	4000*1	5000*1	6000*1	8000*1	10000*1
Max. Output Apparent Power (VA)	4000	5000	6000	8000	10000
Nominal Output Voltage (V)	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
Max. Output Current (A)	8.5	8.5	10	12.1	15.2
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)				
Output THDi (@Nominal Output)	<2%	<2%	<2%	<2%	<2%
Efficiency					
Max. Efficiency	98.0%	98.0%	98.0%	98.3%	98.3%
European Efficiency	>97.5%	>97.5%	>97.5%	>98.0%	>98.0%
Protection					
PV String current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Insulation Resistor Detection	Integrated	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated
Output Over Current Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Output Short Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Output Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated
DC SPD Protection	Integrated(Type III)	Integrated(Type III)	Integrated(Type III)	Integrated(Type III)	Integrated(Type III)
AC SPD Protection	Integrated(Type III)	Integrated(Type III)	Integrated(Type III)	Integrated(Type III)	Integrated(Type III)
General Data					
Operating Temperature Range (°C)	-25~60	-25~60	-25~60	-25~60	-25~60
Relative Humidity	0~100%	0~100%	0~100%	0~100%	0~100%
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000	≤4000
Cooling	Natural Convection	Natural Convection	Natural Convection	Natural Convection	Natural Convection
Noise (dB)	<30	<30	<30	<30	<30
User Interface	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
Weight (kg)	24	24	24	24	24
Size (Width*Height*Depth mm)	516*415*192	516*415*192	516*415*192	516*415*192	516*415*192
Protection Degree	IP65	IP65	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1	<1	<1
Topology	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless
Certifications & Standards					
Grid Regulation	VDE0126-1-1, VDE-AR-N 4105, AS4777.2, EN50438(PL), EN50438(SW), EN50438(IR), G83, ERDF-NOI-RES_13E, IEC61727, IEC62116, CEI 0-21			VDE0126-1-1, AS4777.2, G83, IEC61727, IEC62116, EN50438(SW), EN50438(IR),	VDE0126-1-1, AS4777.2, G83, IEC61727, IEC62116, EN50438(SW), EN50438(IR), CEI 0-21
Safety Regulation	IEC62109-1&2				
EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-4-16, EN61000-4-18, EN61000-4-29				

*1: For CEI 0-21 Nominal Output Power GW4000-DT is 3605, GW5000-DT is 4550, GW6000-DT is 5450, GW8000-DT is 7250, GW10KN-DT is 9050.

Technical Data	GW12KN-DT	GW12KLN-DT	GW15KN-DT	GW17KN-DT	GW20KN-DT
PV String Input Data					
Max. DC Input Power (W)	16800	21600	19500	22100	26000
Max. DC Input Voltage (V)	1000	800	1000	1000	1000
MPPT Range (V)	200~850	200~650	200~850	200~950	200~950
Start-up Voltage (V)	180	200	180	180	180
Nominal DC Input Voltage (V)	620	370	620	620	620
Max. Input Current (A)	22/11	22/22	22/11	22/22	22/22
Max. Short Current (A)	27.6/13.8	27.5/27.5	27.6/13.8	27.5/27.5	27.5/27.5
No. of MPP Trackers	2	2	2	2	2
No. of Input Strings per Tracker	2/1	2/2	2/1	2/2	2/2
AC Output Data					
Nominal Output Power (W)	12000	12000	15000	17000	20000
Max. Output Apparent Power (VA)	14000	11300 @ 208VAC 12000 @ 220VAC 13200 @ 240VAC	16500	19000	22000
Nominal Output Voltage (V)	400, 3L/N/PE	150-300	400, 3L/N/PE	400, 3L/N/PE or 3L/PE	400, 3L/N/PE or 3L/PE
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
Max. Output Current (A)	21.5	31.9	24	28.8	31.9
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)				
Output THDi (@Nominal Output)	<2%	<3%	<2%	<3%	<3%
Efficiency					
Max. Efficiency	98.3%	98.5%	98.3%	98.6%	98.6%
European Efficiency	>98.0%	98.1%	>98.0%	>98.1%	>98.1%
Protection					
PV String current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Insulation Resistor Detection	Integrated	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated
Output Over Current Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Output Short Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Output Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated
DC SPD Protection	Integrated(Type III)	Integrated(Type III)	Integrated(Type III)	Integrated(Type III)	Integrated(Type III)
AC SPD Protection	Integrated(Type III)	Integrated(Type III)	Integrated(Type III)	Integrated(Type III)	Integrated(Type III)
General Data					
Operating Temperature Range (°C)	-25~60	-25~60	-25~60	-25~60	-25~60
Relative Humidity	0~100%	0~100%	0~100%	0~100%	0~100%
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000	≤4000
Cooling	Natural Cooling	Fan Cooling	Natural Cooling	Fan Cooling	Fan Cooling
Noise (dB)	<40	45	<40	45	45
User Interface	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
Weight (kg)	26	26kg	26	26	26
Size (Width*Height*Depth mm)	516*455*192	516*455*220	516*455*192	516*455*220	516*455*220
Protection Degree	IP65	IP65	IP65	IP65	IP65
Night Self Consumption (W)	<1	<2	<1	<1	<2
Topology	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless
Certifications & Standards					
Grid Regulation	VDE0126-1-1, EN50438(PL),VDE-AR-N 4105	-	VDE0126-1-1, AS4777.2, G83, IEC61727, IEC62116, EN50438(SW), EN50438(IR), CEI 0-21		
Safety Regulation	IEC62109-1&2	-	IEC62109-1&2		
EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-4-16, EN61000-4-18, EN61000-4-292, EN61000-6-3, EN61000-6-4, EN61000-4-16, EN61000-4-18, EN61000-4-29	-	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-4-16, EN61000-4-18, EN61000-4-29		