

Maximize Your Power & Savings



SDT Series

Dual-MPPT, Three-Phase

- Easy wall mounting
- Super large 5-inch LCD
- RS485, LAN & Wi-Fi communication
- IP65 dustproof and waterproof



The GoodWe Smart DT series inverter is specially designed for three-phase solar systems, covering a wide power range of 12kW, 15kW, 17kW, 20kW. The two integrated MPPTs allows 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 quiet operation. In addition, the combination of both RS485 and Wi-Fi communication allows the system to be easily monitored and controlled.

Technical Data	GW12KN-DT	GW15KN-DT	GW17KN-DT	GW20KN-DT
PV String Input Data				
Max. DC Input Power (W)	16800	19500	22100	26000
Max. DC Input Voltage (V)	1000	1000	1000	1000
MPPT Range (V)	200~850	200~850	200~950	200~950
Start-up Voltage (V)	180	180	180	180
Nominal DC Input Voltage (V)	620	620	600	600
Max. Input Current (A)	22/11	22/11	22/22	22/22
Max. Short Current (A)	27.6/13.8	27.6/13.8	27.5/27.5	27.5/27.5
No. of MPP Trackers	2	2	2	2
No. of Input Strings per Tracker	2/1	2/1	2/2	2/2
AC Output Data				
Nominal Output Power (W)	12000	15000	17000	20000
Max. Output Apparent Power (VA)	14000	16500	19000	22000
Nominal Output Voltage (V)	400, 3L/N/PE	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
Max. Output Current (A)	21.5	24	28.8	31.9
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)			
Output THDi (@Nominal Output)	<2%	<2%	<2%	<2%
Efficiency				
Max. Efficiency	98.3%	98.3%	98.6%	98.6%
European Efficiency	>98.0%	>98.0%	>98.1%	>98.1%
Protection				
PV String Current Monitoring	Integrated	Integrated	Integrated	Integrated
Anti-Islanding Protection	Integrated	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated
Insulation Resistor Detection	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated
Output Over Current Protection	Integrated	Integrated	Integrated	Integrated
Output Short Protection	Integrated	Integrated	Integrated	Integrated
Output Over Voltage Protection	Integrated	Integrated	Integrated	Integrated
DC SPD Protection	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)
General Data				
Operating Temperature Range (°C)	-25~60	-25~60	-25~60	-25~60
Relative Humidity	0~100%	0~100%	0~100%	0~100%
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000
Cooling	Natural Cooling	Natural Cooling	Fan Cooling	Fan Cooling
Noise (dB)	<40	<40	45	45
User Interface	LCD & LED	LCD & LED	LCD & LED	LCD & LED
Communication	RS485 or WiFi	RS485 or WiFi	RS485 or WiFi	RS485 or WiFi
Weight (kg)	26	26	26	26
Size (Width*Height*Depth mm)	516*455*192	516*455*192	516*455*220	516*455*220
Protection Degree	IP65	IP65	IP65	IP66
Night Self Consumption (W)	<1	<1	<1	<2
Topology	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			
EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-4-16, EN61000-4-18, EN61000-4-29			

Compact and Powerful for Increased Efficiency

SMT Series

Three-MPPT, Three-Phase

- Compact and lightweight
- 30% DC input oversizing
- Up to 10% AC output overloading
- Wide MPPT range from 200 V to 950 V
- IP65 dustproof and waterproof



The brand new GoodWe SMT series inverter is ideal for medium and large-scale commercial rooftop installations, providing maximum efficiency of 98.8% and up to three MPPT routes for a particular environment. With its weight of just 40kg and compact design, the SMT series is easier to handle and install compared to similar inverters in the market. Featuring a maximum DC input voltage of 1100 V, wider MPPT range, and a start-up voltage of 180 V, the SMT series guarantees an earlier generation of power and a longer working time in order to maximize long-term returns and profitability for the system's owner.

Technical Data	GW25K-MT	GW30K-MT	GW36K-MT
DC Input Data			
Max. PV Power (W)	32500	39000	42900
Max. DC Input Voltage (V)	1100	1100	1100
MPPT Range (V)	200~950	200~950	200~950
Starting Voltage (V)	180	180	180
Nominal DC Input Voltage (V)	600	600	600
Max. Input Current (A)	25/25/25	25/25/25	25/25/25
Max. Short Current (A)	31.3/31.3/31.3	31.3/31.3/31.3	31.3/31.3/31.3
No. of MPP Trackers	3	3	3
No. of Input Strings per Tracker	2/2/2	2/2/2	2/2/2
AC Output Data			
Nominal Output Power (W)	25000	30000* ¹	36000* ⁴
Max. Output Power (W)	27500	33000* ²	36000
Max. Output Apparent Power (VA)	27500	33000* ³	36000
Nominal Output Voltage (V)	400, 3L/N/PE or 3L/PE		
Nominal Output Frequency (Hz)	50/60	50/60	50/60
Max. Output Current (A)	40	48	53.3
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)		
Output THDi (@Nominal Output)	<3%	<3%	<3%
Efficiency			
Max. Efficiency	98.70%	98.80%	98.80%
European Efficiency	>98.4%	>98.5%	>98.5%
Protection			
Anti-Islanding Protection	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated
PV String Current Monitoring	Integrated	Integrated	Integrated
Anti-PID Function for Module	Optional	Optional	Optional
Insulation monitoring	Integrated	Integrated	Integrated
DC SPD Protection	Optional (Type II)	Optional (Type II)	Optional (Type II)
AC SPD Protection	Optional (Type II)	Optional (Type II)	Optional (Type II)
Residual Current Monitoring Unit	Integrated	Integrated	Integrated
AC Over Current Protection	Integrated	Integrated	Integrated
AC Short Protection	Integrated	Integrated	Integrated
AC Over Voltage Protection	Integrated	Integrated	Integrated
General Data			
Ambient Temperature Range (°C)	-30~60	-30~60	-30~60
Relative Humidity	0~100%	0~100%	0~100%
Operating Altitude (m)	≤3000	≤3000	≤3000
Cooling	Fan Cooling	Fan Cooling	Fan Cooling
Display	LCD & LED or APP & LED		
Communication	RS485 or WiFi or GPRS or PLC (LCD); WiFi+RS485 or GPRS+RS485 (APP)		
Weight (kg)	40	40	40
Dimension (Width*Height*Depth mm)	480*590*200	480*590*200	480*590*200
Protection Degree	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1
Topology	Transformerless		
Certifications & Standards			
Grid Regulation	AS4777.2/VDE0126-1-1/VDE-AR-N 4105		
Safety Regulation	IEC62109-1&-2		
EMC Regulation	EN61000-6-1/EN61000-6-2/EN61000-6-3/EN61000-6-4		

*¹: 29.99kW for Australia, 30kW for other country*²: 29.99kW for Australia, 33kW for other country*³: 29.99kVA for Australia, 33kVA for other country*⁴: 33kW for Italy, 36kW for other country

Boost Your Power & Profit

MT Series

Four-MPPT, Three-Phase

- 30% DC input oversizing ratio
- 15% AC output overloading ratio
- Smart monitoring for 13 strings
- Full-load running at 50°C
- Integrated bussman fuse for panel protection



The second generation of GoodWe MT series inverter is suited for medium and large scale commercial rooftops and ground-mounted solar PV systems where maximum versatility and profitability are important. With its compact design and power boost function, the GoodWe MT G2 series can provide a 15% continuous maximum AC output power overload, offering a faster return on investment. The start-up voltage is 200V, much lower than 600V of other products, which makes the inverter start up earlier, therefore generating more power over time.

Technical Data	GW50K-MT	GW50KN-MT	GW60K-MT	GW60KN-MT	GW50KBF-MT	GW60KBF-MT	GW70KHV-MT	GW80KHV-MT	GW80KBF-MT	
DC Input Data										
Max. PV Power (W)	65000	65000	80000	80000	65000	80000	91000	120000	104000	
Max. DC Input Voltage (V)	1000	1100	1000	1100	1100	1100	1100	1100	1100	
MPPT Range (V)	200~850	200~1000	200~850	200~1000	200~1000	200~1000	200~1000	200~1000	200~1000	
Starting Voltage (V)	200	200	200	200	200	200	200	200	200	
Nominal DC Input Voltage (V)	620	620	620	620	620	620	750	800	800	
Max. Input Current (A)	30/30/20/20	33/33/22/22	30/30/30/30	33/33/33/33	30/30/30/30	44/44/44/44	33/33/33/33	44/44/44/44	39/39/39/39	
Max. Short Current (A)	38/38/25/25	41.5/41.5/27.5/27.5	38/38/38/38	41.5/41.5/41.5/41.5	37.5/37.5/37.5/37.5	55/55/55/55	41.5/41.5/41.5/41.5	55/55/55/55	54.8/54.8/54.8/54.8	
No. of MPP Trackers	4	4	4	4	4	4	4	4	4	
No. of Input Strings per Tracker	3/3/2/2	3/3/2/2	3/3/3/3	3/3/3/3	2/2/2/2	3/3/3/3	3/3/3/3	4/4/4/4	3/3/3/3	
AC Output Data										
Nominal Output Power (W)	50000	50000	60000	60000	50000	60000	70000	80000	80000	
Max. Output Power (W)	55000; 57500@415Vac	55000; 57500@415Vac	66000; 69000@415Vac	66000; 69000@415Vac	55000; 57500@415Vac	66000; 69000@415Vac	77000	88000	88000	
Max. Output Apparent Power (VA)	55000; 57500@415Vac	55000; 57500@415Vac	66000; 69000@415Vac	66000; 69000@415Vac	55000; 57500@415Vac	66000; 69000@415Vac	77000	88000	88000	
Nominal Output Voltage (V)	400, 3L/N/PE or 3L/PE	400, 3L/N/PE or 3L/PE	400, 3L/N/PE or 3L/PE	400, 3L/N/PE or 3L/PE	400, 3L/N/PE or 3L/PE	400, 3L/N/PE or 3L/PE	500, 3L/PE	540, 3L/PE	540, 3L/PE	
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	
Max. Output Current (A)	80	80	96	96	80	96	89	94.1	94.1	
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)									
Output THDi (@Nominal Output)	<3%	<3%	<3%	<3%	<3%	<3%	<3%	<3%	<3%	
Efficiency										
Max. Efficiency	98.7%	98.7%	98.8%	98.8%	98.8%	98.8%	99.0%	99.0%	99.0%	
European Efficiency	98.3%	98.3%	98.5%	98.5%	98.3%	98.3%	98.4%	98.4%	98.4%	
Protection										
PV String Current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	
Anti-Islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	
Insulation monitoring	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	
DC fuse	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	
Anti-PID Function for Module	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	
DC SPD Protection	Integrated (Type II)									
AC SPD Protection	Integrated (Type II)									
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	
AC Over Current Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	
AC Short Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	
AC Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	
AC Fault Circuit Interrupter	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	
General Data										
Ambient Temperature Range (°C)	-30~60	-30~60	-30~60	-30~60	-30~60	-30~60	-30~60	-30~60	-30~60	
Relative Humidity	0~100%	0~100%	0~100%	0~100%	0~100%	0~100%	0~100%	0~100%	0~100%	
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000	
Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling	
Display	LCD or WiFi+APP									
Communication	RS485 or WiFi or PLC									
Weight (kg)	59	59	64	64	60	65	60	65	65	
Dimension (Width*Height*Depth mm)	586*788*264	586*788*264	586*788*264	586*788*264	586*788*264	586*788*264	586*788*264	586*788*267	586*788*264	
Protection Degree	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	
Night Self Consumption (W)	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Topology	Transformerless									
Certifications & Standards										
Grid Regulation	IEC61727, IEC62116, IEC60068, IEC61683, EN50530, EN50438+, VDE0126-1-1/A1, VDE-AR-N 4105, RD1699, RD661, RD413, UNE, AS/NZS 4777.2, DRRG/DEWA, NRS 097, G99	IEC61727, IEC62116, VDE4105, VDE0126, RD1699, RD413, RD661, EN50438, AS/NZS 4777.2, NRS 097, CEI 0-21, ERDF-NOI-RES_13E	IEC61727, IEC62116, IEC60068, IEC61683, EN50530, EN50438+, VDE0126-1-1/A1, VDE-AR-N 4105, RD1699, RD661, RD413, UNE, AS/NZS 4777.2, DRRG/DEWA, NRS 097, G99	IEC61727, IEC62116, VDE4105, VDE0126, RD1699, RD413, RD661, EN50438, AS/NZS 4777.2, NRS 097, CEI 0-21, ERDF-NOI-RES_13E, MEA, PEA	IEC61727, IEC62116, VDE4105, VDE0126, RD1699, RD413, RD661, EN50438	IEC61727, IEC62116, VDE4105, VDE0126, RD1699, RD413, RD661, EN50438	IEC61727, IEC62116, VDE4105, VDE0126, RD1699, RD413, RD661, EN50438	IEC61727, IEC62116, VDE4105, VDE0126, RD1699, RD413, RD661, EN50438	IEC61727, IEC62116, VDE4105, VDE0126, RD1699, RD413, RD661, EN50438	IEC61727, IEC62116, VDE4105, VDE0126, RD1699, RD413, RD661, EN50438
Safety Regulation	IEC62109-1&-2									
EMC Regulation	EN6100-6-4:2007+A1:2011, EN61000-6-2:2005, EN61000-3-11:2000, EN61000-3-12:2011+AC:2013									