

SDT G2 Series

Dual-MPPT, Three-Phase



Technical Data	GW4K-DT	GW5K-DT	GW6K-DT	GW8K-DT	GW10KT-DT	GW12KT-DT	GW15KT-DT
PV String Input Data							
Max. DC Input Power (Wp)	6000	7500	9000	12000	15000	18000	22500
Max. DC Input Voltage (V)	1000	1000	1000	1000	1000	1000	1000
MPPT Range (V)	180~850	180~850	180~850	180~850	180~850	180~850	180~850
Start-up Voltage (V)	160	160	160	160	160	160	160
Min. Feed-in Voltage(V)	210	210	210	210	210	210	210
Nominal DC Input Voltage (V)	620	620	620	620	620	620	620
Max. Input Current (A)	12.5/12.5	12.5/12.5	12.5/12.5	12.5/12.5	12.5/12.5	12.5/25	12.5/25
Max. Short Current (A)	15.6/15.6	15.6/15.6	15.6/15.6	15.6/15.6	15.6/15.6	15.6/31.2	15.6/31.2
No. of MPP Trackers	2	2	2	2	2	2	2
No. of Input Strings Per MPP Tracker	1/1	1/1	1/1	1/1	1/1	1/2	1/2
AC Output Data							
Nominal Output Power (W)	4000	5000	6000	8000	10000	12000	15000
Max. Output Apparent Power (VA)	4400*1	5500*1	6600*1	8800*1	11000*1	13200*1	16500*1
Nominal Output Voltage (V)	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)	6.4	8	9.6	12.8	16	20.3	24
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)						
Output THDi (@Nominal Output)	<3%	<3%	<3%	<3%	<3%	<3%	<3%
Efficiency							
Max. Efficiency	98.2%	98.2%	98.2%	98.2%	98.3%	98.3%	98.3%
European Efficiency	>97.6%	>97.6%	>97.6%	>97.6%	>97.7%	>97.7%	>97.7%
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
DC Surge Protection	Integrated (Type III)						
AC Surge Protection	Integrated (Type III)						
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)	-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%
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000
Cooling	Natural Cooling	Natural Cooling	Natural Cooling	Fan Cooling	Fan Cooling	Fan Cooling	Fan Cooling
User Interface	LCD&LED						
Communication	WiFi or LAN or RS485						
Weight (kg)	15	15	15	16	16	18	18
Size (Width*Height*Depth mm)	354*433*147	354*433*147	354*433*147	354*433*155	354*433*155	354*433*155	354*433*155
Protection Degree	IP65	IP65	IP65	IP65	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1	<1	<1	<1	<1
Topology	Transformerless						

*1: For Belgium Max. Output Apparent Power (VA): GW4K-DT is 4000; GW5K-DT is 5000; GW6K-DT is 6000; GW8K-DT is 8000; GW10KT-DT is 10000; GW12KT-DT is 12000; GW15KT-DT is 15000.

*: Please visit GoodWe website for the latest certificates.

GOODWE

SDT G2 Series

17-25kW | 2 MPPTs | Three Phase

The GoodWe 17-25kW SDT Series inverter is especially designed for three-phase residential and small commercial projects. With its compact design, the SDT inverter is 45% smaller than the first generation. The inverter is also light and easy to install. The maximum efficiency of this inverter is as high as 98.4%. With an advanced ventilation system, the inverter is able to dissipate heat efficiently. In addition, it can be customised with an integrated LCD screen.



Compatible with bifacial modules



150% DC input oversizing



110% AC output overloading



Max. Efficiency 98.4%



Compact and light weight

Technical Data	GW17KT-DT	GW20KT-DT	GW25KT-DT
Input			
Max. Input Voltage (V)	1100	1100	1100
MPPT Operating Voltage Range (V)	200 ~ 950	200 ~ 950	200 ~ 950
Start-up Voltage (V)	180	180	180
Nominal Input Voltage (V)	620	620	620
Max. Input Current per MPPT (A)	25.0	25.0	37.5 / 25.0
Max. Short Circuit Current per MPPT (A)	31.2	31.2	46.8 / 31.2
Number of MPP Trackers	2	2	2
Number of Strings per MPPT	2	2	3 / 2
Output			
Nominal Output Power (W)	17000	20000	25000
Nominal Output Apparent Power (VA)	17000	20000	25000
Max. AC Active Power (W) ¹	19000	22000	27500
Max. AC Apparent Power (VA) ²	19000	22000	27500
Nominal Output Voltage (V)	400, 3L / N / PE	400, 3L / N / PE	400, 3L / N / PE
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50 / 60
Max. Output Current (A)	28.8	31.9	40.8
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)		
Max. Total Harmonic Distortion	<3%	<3%	<3%
Efficiency			
Max. Efficiency	98.4%	98.4%	98.4%
European Efficiency	97.7%	97.7%	97.7%
Protection			
PV Insulation Resistance Detection	Integrated	Integrated	Integrated
Residual Current Monitoring	Integrated	Integrated	Integrated
PV Reverse Polarity Protection	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated
AC Overcurrent Protection	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated	Integrated
DC Switch	Integrated	Integrated	Integrated
DC Surge Protection	Type III(Type II Optional)	Type III(Type II Optional)	Type III(Type II Optional)
AC Surge Protection	Type III	Type III	Type III
AFCI	Optional	Optional	Optional
General Data			
Operating Temperature Range (°C)	-30 ~ +60	-30 ~ +60	-30 ~ +60
Relative Humidity	0 ~ 100%	0 ~ 100%	0 ~ 100%
Max. Operating Altitude (m) ³	4000	4000	4000
Cooling Method	Smart Fan Cooling	Smart Fan Cooling	Smart Fan Cooling
User Interface	LCD, LED (Optional), WLAN + APP		
Communication	RS485, WiFi or LAN (Optional)		
Communication Protocols	Modbus-RTU (SunSpec Compliant)		
Weight (kg)	25.0	25.0	25.0
Dimension (W x H x D mm)	415 x 511 x 175	415 x 511 x 175	415 x 511 x 175
Topology	Non-isolated	Non-isolated	Non-isolated
Self-consumption at Night (W)	<1	<1	<1
Ingress Protection Rating	IP65	IP65	IP65
DC Connector	MC4 (4 ~ 6mm ²)	MC4 (4 ~ 6mm ²)	MC4 (4 ~ 6mm ²)
AC Connector	AC Connector	AC Connector	AC Connector

*1: For Belgium, Max. AC Active Power (W): GW4K-DT is 4000, GW5K-DT is 5000, GW6K-DT is 6000, GW8K-DT is 8000, GW10KT-DT is 10000, GW12KT-DT is 12000, GW15KT-DT is 15000, GW17KT-DT is 17000, GW20KT-DT is 20000, GW25KT-DT is 25000.

*2: For Belgium, Max. Output Apparent Power (VA): GW4K-DT is 4000, GW5K-DT is 5000, GW6K-DT is 6000, GW8K-DT is 8000, GW10KT-DT is 10000, GW12KT-DT is 12000, GW15KT-DT is 15000, GW17KT-DT is 17000, GW20KT-DT is 20000, GW25KT-DT is 25000.

*3: For Australia, Max. Operating Altitude (m) is 3000.

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MT Series

50-80kW | Three Phase | 4 MPPTs

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 series of the new generation can provide a 150% continuous maximum AC output power overload, offering a faster return on investment. The start-up voltage is 200V, much lower than other products, which makes the inverter start up earlier, therefore generating more power over time.



Up to 150% DC input oversizing



String level monitoring



Up to 115% AC output overloading



Full-load running at 50°C



Up to 99% Max. Efficiency



Power line communication

Technical Data	GW50KN -MT	GW60KN -MT	GW50KBF -MT	GW60KBF -MT	GW75KBF -MT	GW80KBF -MT	GW70KHV -MT	GW80KHV -MT	GW75K -MT	GW80K -MT	
Input											
Max. Input Voltage (V)	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	
MPPT Operating Voltage Range (V)	200 ~ 1000	200 ~ 1000	200 ~ 1000	200 ~ 1000	200 ~ 1000	200 ~ 1000	200 ~ 1000	200 ~ 1000	200 ~ 1000	200 ~ 1000	
Start-up Voltage (V)	200	200	200	200	200	200	200	200	200	200	
Nominal Input Voltage (V)	620	620	620	620	750	800	750	800	600	620	
Max. Input Current per MPPT (A)	33 / 33 / 22 / 22	33	30	44	44	39	33	44	44	44	
Max. Short Circuit Current per MPPT (A)	41.5 / 41.5 / 27.5 / 27.5	41.5	37.5	55.0	55.0	54.8	41.5	55.0	55.0	55.0	
Number of MPP Trackers	4	4	4	4	4	4	4	4	4	4	
Number of Strings per MPPT	3 / 3 / 2 / 2	3	2	3	3	3	3	4	4 (Standard), 3 (Optional, Support bifacial module)		
Output											
Nominal Output Power (W)	50000	60000	50000	60000	75000	80000	70000	80000	75000	80000	
Nominal Output Apparent Power (VA)	50000	60000	50000	60000	75000	80000	70000	80000	75000	80000	
Max. AC Active Power (W)	55000; 57500 @415V*1	66000; 69000 @415V*1	55000; 57500 @415V*1	66000; 69000 @415V*1	82500*1	88000*1	77000*1	88000*1	75000	88000*1	
Max. AC Apparent Power (VA)	55000; 57500 @415V*2	66000; 69000 @415V*2	55000; 57500 @415V*2	66000; 69000 @415V*2	82500*2	88000*2	77000*2	88000*2	75000	88000*2	
Nominal Output Voltage (V)	400, 3L / N / PE or 3L / PE				500, 3L / PE	540, 3L / PE	500, 3L / PE	540, 3L / PE	400, 3L / N / PE or 3L / PE		
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	
Max. Output Current (A)	80.0	96.0	80.0	96.0	95.3	94.1	89.0	94.1	133.0	133.0	
Power Factor	~1 (adjustable from 0.8 lagging to 0.8 leading)										
Max. Total Harmonic Distortion	<3%	<3%	<3%	<3%	<3%	<3%	<3%	<3%	<3%	<3%	
Efficiency											
Max. Efficiency	98.7%	98.8%	98.8%	98.8%	99.0%	99.0%	99.0%	99.0%	98.8%	98.8%	
European Efficiency	98.3%	98.5%	98.3%	98.3%	98.4%	98.4%	98.4%	98.4%	98.3%	98.3%	
Protection											
PV String Current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	
PV Insulation Resistance Detection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	
Residual Current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	
PV Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	
AC Overcurrent Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	
AC Short Circuit Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	
AC Overvoltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	
DC Switch	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	
DC Surge Protection	Type II	Type II	Type II	Type II	Type II	Type II	Type II	Type II	Type II	Type II	
AC Surge Protection	Type II	Type II	Type II	Type II	Type II	Type II	Type II	Type II	Type II	Type II	
AFCI	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	
PID Recovery	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	
General Data											
Operating Temperature Range (°C)	-30 ~ +60	-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%	0 ~ 100%	
Max. Operating Altitude (m)	4000	4000	4000	4000	4000	4000	4000	4000	≤4000	≤4000	
Cooling Method	Smart Fan Cooling								Fan Cooling		
User Interface	LED, LCD (Optional), WiFi + APP				LED, WiFi + APP			LED, LCD (Optional), WiFi + APP	LED, WiFi + APP		
Communication	RS485, WiFi or PLC (Optional)								RS485, WiFi, PLC (Optional)		
Weight (kg)	59.0	64.0	60.0	65.0	65.0	65.0	60.0	65.0	70.0	70.0	
Dimension (W × H × D mm)	586 × 788 × 264				586 × 788 × 267			586 × 788 × 264	586 × 788 × 267		
Topology	Non-isolated										
Self-consumption at Night (W)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Ingress Protection Rating	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	
DC Connector	MC4 (4 ~ 6mm ²)		-	-	-	-	-	-	-	MC4 (4 ~ 6mm ²)	

*1: For Belgium Max. AC Active Power (W): GW50KN-MT is 50000; GW60KN-MT is 60000; GW50KBF-MT is 50000; GW60KBF-MT is 60000; GW75KBF-MT is 75000; GW80KBF-MT is 80000; GW70KHV-MT is 70000; GW80KHV-MT is 80000; GW80K-MT is 80000.

*2: For Belgium Max. AC Apparent Power (VA): GW50KN-MT is 50000; GW60KN-MT is 60000; GW50KBF-MT is 50000; GW60KBF-MT is 60000; GW75KBF-MT is 75000; GW80KBF-MT is 80000; GW70KHV-MT is 70000; GW80KHV-MT is 80000; GW80K-MT is 80000.

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