

SDT G2 Series

4-15kW | 2 MPPTs | Three Phase

The GoodWe SDT Series is one of the best options available on the residential & commercial segments thanks to its technical strengths that make it one of the most efficient in the market. For enhanced safety, this inverter is able to incorporate AFCI. Its high efficiency (98.3%) and its enhanced oversizing & overloading capabilities represent an outstanding improvement in the industry. Moreover, its plug-in AC connector make operation & maintenance easier.



Up to 98.3% Max. Efficiency



150% DC input oversizing



110% AC output overloading



Arc-fault circuit interrupter



Easy for installation and O&M

Technical Data	GW4K-DT	GW5K-DT	GW6K-DT	GW8K-DT	GW10KT-DT	GW12KT-DT	GW15KT-DT
PV String Input Data							
Max. DC Input Power (W)	6000	7500	9000	12000	15000	18000	22500
Max. DC Input Voltage (V)	1000	1000	1000	1000	1000	1000	1000
MPPT Operating Voltage 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
Nominal DC Input Voltage (V)	620	620	620	620	620	620	620
Max. Input Current per MPPT (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 Circuit Current per MPPT (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
Number of MPPTs	2	2	2	2	2	2	2
Number of Strings per MPPT	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
Nominal Output Apparent Power(VA)	4000	5000	6000	8000	10000	12000	15000
Max. Output Apparent Power (VA)	4400*1	5500*1	6600*1	8800*1	11000*1	14000*1	16500*1
Nominal Output Voltage (V)	400, 3L / N / PE						
Output Voltage Range (V)	180~270	180~270	180~270	180~270	180~270	180~270	180~270
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60
AC Grid Frequency Range (Hz)	45~55 / 55~65	45~55 / 55~65	45~55 / 55~65	45~55 / 55~65	45~55 / 55~65	45~55 / 55~65	45~55 / 55~65
Max. Output Current (A)	6.4	8	9.6	12.8	16	20.3	24
Nominal Output Current (A)	5.8	7.2	8.7	11.6	14.5	17.3	21.7
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)						
Max. Total Harmonic Distortion	<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
DC Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC Insulation Resistor Detection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC Surge Protection	Type III						
AC Surge Protection	Type III						
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Over Current Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC Arc Fault Circuit Interrupter	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
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 Method	Natural Convection			Smart Fan Cooling			
Display	LCD, LED / WiFi+App						
Communication	WiFi / LAN / RS485						
Communication Protocol	SunSpec Modbus						
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
Ingress Protection Rating	IP65	IP65	IP65	IP65	IP65	IP65	IP65
Night Power Consumption (W)	<1	<1	<1	<1	<1	<1	<1
DC Connector	MC4 (2.5~4mm ²)						
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.