

GOODWE

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



Type II DC SPD optional*1

Technical Data	GW4K-DT	GW5K-DT	GW6K-DT	GW8K-DT	GW10KT-DT	GW12KT-DT	GW15KT-DT
Input							
Max. 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 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	25/12.5	25/12.5
Max. Short Circuit Current per MPPT (A)	15.6	15.6	15.6	15.6	15.6	31.2/15.6	31.2/15.6
Number of MPPTs	2	2	2	2	2	2	2
Number of Strings per MPPT	1	1	1	1	1	2/1	2/1
Output							
Nominal Output Power (W)	4000	5000	6000	8000	10000	12000	15000
Nominal Output Apparent Power (VA)	4000	5000	6000	8000	10000	12000	15000
Max. AC Active Power (W) ^{*1}	4400	5500	6600	8800	11000	14000	16500
Max. AC Apparent Power (VA) ^{*2}	4400	5500	6600	8800	11000	14000	16500
Nominal Output Voltage (V)	400, 3L/N/PE	400, 3L/N/PE	400, 3L/N/PE	400, 3L/N/PE	400, 3L/N/PE	400, 3L/N/PE	400, 3L/N/PE
Output Voltage Range (V)	180~270 (According to local standard)						
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50 / 60	50/60	50/60	50/60	50/60
Max. Output Current (A)	6.4	8.0	9.6	12.8	16.0	20.3	24.0
Nominal Output Current (A)	5.8	7.2	8.7	11.6	14.5	17.3	21.7
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							
PV Insulation Resistance Detection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Overcurrent Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC Switch	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC Surge Protection	Type III	Type III	Type III	Type III	Type III	Type III	Type III
AC Surge Protection	Type III	Type III	Type III	Type III	Type III	Type III	Type III
AFCI	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%
Max. Operating Altitude (m) ^{*3}	4000	4000	4000	4000	4000	4000	4000
Cooling Method	Natural Convection						
Display	LCD, LED(Optional), WLAN+APP						
Communication	RS485, WiFi or LAN(Optional)						
Communication Protocols	Modbus-RTU (SunSpec Compliant)						
Weight (kg)	15.0	15.0	15.0	16.0	16.0	18.0	18.0
Dimension WxHxD (mm)	354x433x147	354x433x147	354x433x147	354x433x155	354x433x155	354x433x155	354x433x155
Noise Emission (dB)	<34	<34	<34	-	-	-	-
Topology	Non-isolated	Non-isolated	Non-isolated	Non-isolated	Non-isolated	Non-isolated	Non-isolated
Self-consumption at Night (W)	<1	<1	<1	<1	<1	<1	<1
Ingress Protection Rating	IP65	IP65	IP65	IP65	IP65	IP65	IP65
DC Connector	MC4 (4~6mm ²)	MC4 (4~6mm ²)	MC4 (4~6mm ²)	MC4 (4~6mm ²)	MC4 (4~6mm ²)	MC4 (4~6mm ²)	MC4 (4~6mm ²)
AC Connector	Plug and play 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, GW4000-SDT-20 is 4000, GW5000-SDT-20 is 5000, GW6000-SDT-20 is 6000, GW8000-SDT-20 is 8000, GW10K-SDT-20 is 10000, GW12K-SDT-20 is 12000, GW12KLV-SDT-20 is 12000, GW15K-SDT-20 is 15000, GW17K-SDT-20 is 17000, GW20K-SDT-20 is 20000;

*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, GW4000-SDT-20 is 4000, GW5000-SDT-20 is 5000, GW6000-SDT-20 is 6000, GW8000-SDT-20 is 8000, GW10K-SDT-20 is 10000, GW12K-SDT-20 is 12000, GW12KLV-SDT-20 is 12000, GW15K-SDT-20 is 15000, GW17K-SDT-20 is 17000, GW20K-SDT-20 is 20000;

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