

GOODWE

SDT G2 Series

5-20 kW | Three Phase
2 MPPTs

The SDT G2 series of inverter from GoodWe is one of the best options available in the residential & commercial sectors owing to its technical strengths, which make it one of the most productive inverters in the market. Because of its high efficiency of (98.4%), the enhanced oversizing & overloading capabilities and the fact that it does not require a null line for installation, SDT G2 represents an outstanding improvement in the industry.



Max. 15 A input current per string



150% DC input oversizing & 110% AC output overloading



98.4% max. efficiency



Compatible with high-power 182mm/210mm modules



Optional AFCI on DC side



Smart Shadow Scan with adjustable scan interval

Technical Data	GW5K-DT	GW6K-DT	GW8KAU-DT	GW10KAU-DT	GW15KAU-DT	GW20KAU-DT
Input						
Max. Input Power (W)	7,500	9,000	12,000	15,000	22,500	30,000
Max. Input Voltage (V)	1,000	1,000	1,100	1,100	1,100	1,100
MPPT Operating Voltage Range (V)	180~850	180~850	140~950	140~950	140~950	140~950
Start-up Voltage (V)	160	160	180	180	180	180
Nominal Input Voltage (V)	620	620	620	620	620	620
Max. Input Current per MPPT (A)	12.5	12.5	30	30	30	30
Max. Short Circuit Current per MPPT (A)	15.6	15.6	37.5	37.5	37.5	37.5
Number of MPP trackers	2	2	2	2	2	2
Number of Strings per MPPT	1	1	2	2	2	2
Output						
Nominal Output Power (W)	5000	6000	8000	10000	15000	20000
Nominal Output Apparent Power (VA)	5000	6000	8000	10000	15000	20000
Max. AC Active Power (W) ¹	5500	6600	8800	11000	16500	22000
Max. AC Apparent Power (VA) ²	5500	6600	8800	11000	16500	22000
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
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50	50	50	50
Max. Output Current (A)	8.0	9.6	12.8	16.0	24.0	31.9
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)					
Max. Total Harmonic Distortion	<3%	<3%	<3%	<3%	<3%	<3%
Efficiency						
Max. Efficiency	98.2%	98.2%	98.4%	98.4%	98.4%	98.4%
European Efficiency	97.6%	97.6%	97.5%	97.5%	97.5%	97.5%
Protection						
PV Insulation Resistance Detection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
PV Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Overcurrent Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC Switch	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC Surge Protection	Type III	Type III	Type II	Type II	Type II	Type II
AC Surge Protection	Type III	Type III	Type III	Type III	Type III	Type III
AFCI	Optional	Optional	Optional	Optional	Optional	Optional
Remote Shutdown	-	-	Optional	Optional	Optional	Optional
General Data						
Operating Temperature Range (°C)	-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%
Max. Operating Altitude (m)	4000	4000	3000	3000	3000	3000
Cooling Method	Natural Convection				Smart Fan Cooling	
Display	LCD, LED(Optional), WLAN+APP					
Communication	RS485, WiFi or LAN(Optional)					
Communication Protocols	Modbus-RTU (SunSpec Compliant)					
Weight (kg)	15.0	15.0	20.5	20.5	26.0	26.0
Dimension WxHxD (mm)	354x433x147			415x511x175		
Noise Emission (dB)	<34	<34	<25	<25	<50	<50
Topology	Non-isolated	Non-isolated	Non-isolated	Non-isolated	Non-isolated	Non-isolated
Self-consumption at Night (W)	<1	<1	<1	<1	<1	<1
Ingress Protection Rating	IP65	IP65	IP65	IP65	IP65	IP65
DC Connector	MC4 (4~6mm ²)					
AC Connector	Plug and play connector			AC Connector		
Country of Manufacture	China	China	China	China	China	China

*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;
 *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

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