

GOODWE

SDT G2 Series

5-20kW | 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.



Up to 98.4% max. efficiency



150% DC input oversizing & 110% AC output overloading



Arc-fault circuit interrupter optional*



Easy installation and O&M

Technical Data	GW5K-DT	GW6K-DT	GW5000-SDT-20	GW6000-SDT-20	GW8KAU-DT	GW9.9KAU-DT	GW10KAU-DT	GW15KAU-DT	GW20KAU-DT
Input									
Max.Input Power (W)	7500	9000	7500	9000	12000	15000	15000	22500	30000
Max.Input Voltage (V)	1000				1100				
MPPT Operating Voltage Range (V)**	180 ~ 850				140 ~ 950				
Start-up Voltage (V)	160				180				
Nominal Input Voltage (V)					620				
Max. Input Current per MPPT (A)	12.5	16.0			30.0				
Max. Short Circuit Current per MPPT (A) ^{†1}	15.6	20.0			37.5				
Number of MPP Trackers					2				
Number of Strings per MPPT	1				2				
Output									
Nominal Output Power (W)	5000	6000	5000	6000	8000	9990	10000	15000	20000
Nominal Output Apparent Power (VA)	5000	6000	5000	6000	8000	9990	10000	15000	20000
Max. AC Active Power (W)	5500	6600	5500	6600	8800	9990	11000	16500	22000
Max. AC Apparent Power (VA)	5500	6600	5500	6600	8800	9990	11000	16500	22000
Nominal Output Voltage (V)	400, 3L / N / PE								
Output Voltage Range (V) (according to local standard)	180 ~ 270				180 ~ 260				
Nominal AC Grid Frequency (Hz)	50 / 60				50				
AC Grid Frequency Range (Hz)	45 ~ 55 / 55 ~ 65				47 ~ 52				
Max. Output Current (A)	8.0	9.6	8.0	9.6	12.8	14.5	16.0	24.0	31.9
Rated Output Current (A)	7.2	8.7	7.2	8.7	11.6	14.5	14.5	21.7	29.0
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)								
Max. Total Harmonic Distortion	<3%								
Efficiency									
Max. Efficiency	98.2%				98.4%				
European Efficiency	97.6%				97.5%				
Protection									
PV Insulation Resistance Detection	Integrated								
Residual Current Monitoring	Integrated								
PV Reverse Polarity Protection	Integrated								
Anti-islanding Protection	Integrated								
AC Overcurrent Protection	Integrated								
AC Short Circuit Protection	Integrated								
AC Overvoltage Protection	Integrated								
DC Switch	Integrated								
DC Surge Protection	Type III	Type III (Type II Optional)			Type II				
AC Surge Protection	Type III	Type III (Type II Optional)			Type III				
AFCI					Optional				
Remote Shutdown	-	Optional							
General Data									
Operating Temperature Range (°C)	-30 ~ +60								
Relative Humidity	0 ~ 100%								
Max. Operating Altitude (m)	3000				4000				
Cooling Method	Natural Convection						Smart Fan Cooling		
User Interface	LCD, LED (Optional), WLAN + APP				LCD, LED (Optional), WLAN + APP				
Communication	WiFi, RS485 or LAN (Optional)		WiFi, RS485 or LAN or 4G (Optional)			WiFi, RS485 or LAN (Optional)			
Communication Protocols	Modbus-RTU (SunSpec Compliant)		-			Modbus-RTU (SunSpec Compliant)			
Weight (kg)	15.0				20.5		26.0		
Dimension (W × H × D mm)	354 × 433 × 147				415 × 511 × 175				
Topology	Non-isolated								
Self-consumption at Night (W)	<1								
Ingress Protection Rating	IP65								
DC Connector	MC4 (4 ~ 6mm²)								
AC Connector	Plug and play connector				AC Connector				
Country of Manufacture	China								

*1: For Australia Max. Short Circuit Current per MPPT (A) please refer to 'Manufacturer declaration: short circuit current'.

*: All pictures shown are for reference only. Actual appearance may vary.

*: Optional functions or devices are purchased separately.

*: Please visit GoodWe website for the latest certificates.

** : Please refer to the user manual for the MPPT Voltage Range at Nominal Power.