GOODWE

SDT G2 Series

5-20kW I 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

SDT G2 Series

GOODWE

Technical Data	GW5K-DT	GW6K-DT	GW5000-SDT-20	GW6000-SDT-20	GW8KAU-DT	GW10KAU-DT	GW15KAU-DT	GW20KAU-DT
Input								
Max.Input Power (W)	7500	9000	7500	9000	12000	15000	22500	30000
Max.Input Voltage (V)	1000	1000	1000	1000	1100	1100	1100	1100
MPPT Operating Voltage Range (V)	180 ~ 850	180 ~ 850	180 ~ 850	180 ~ 850	140 ~ 950	140 ~ 950	140 ~ 950	140 ~ 950
Start-up Voltage (V)	160	160	180	180	180	180	180	180
Nominal Input Voltage (V)	620	620	620	620	620	620	620	620
Max. Input Current per MPPT (A)	12.5	12.5	16	16	30	30	30	30
Max. Short Circuit Current per MPPT (A)*1	15.6	15.6	20	20	37.5	37.5	37.5	37.5
Number of MPP Trackers	2	2	2	2	2	2	2	2
Number of Strings per MPPT	1	1	1	1	2	2	2	2
Output								
Nominal Output Power (W)	5000	6000	5000	6000	8000	10000	15000	20000
Nominal Output Apparent Power (VA)	5000	6000	5000	6000	8000	10000	15000	20000
Max. AC Active Power (W)	5500	6600	5500	6600	8800	11000	16500	22000
Max. AC Apparent Power (VA)	5500	6600	5500	6600	8800	11000	16500	22000
Nominal Output Voltage (V)	400, 3L / N / PE							
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60	50	50	50	50
Max. Output Current (A)	8.0	9.6	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%	<3%	<3%
Efficiency								
Max. Efficiency	98.2%	98.2%	98.2%	98.2%	98.4%	98.4%	98.4%	98.4%
European Efficiency	97.6%	97.6%	97.6%	97.6%	97.5%	97.5%	97.5%	97.5%
Protection								
PV Insulation Resistance Detection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
PV Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Overcurrent Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC Switch	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC Surge Protection	Type III	Type III	Type III (Type II Optional)		Type II	Type II	Type II	Type II
AC Surge Protection	Type III	Type III	Type III	Type III	Type III	Type III	Type III	Type III
AFCI	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Remote Shutdown	-	-	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
Relative Humidity	0 ~ 100%	0 ~ 100%	0 ~ 100%	0 ~ 100%	0 ~ 100%	0 ~ 100%	0 ~ 100%	0 ~ 100%
Max. Operating Altitude (m)	3000	3000	3000	3000	3000	3000	3000	3000
Cooling Method	Natural Convection						Smart Fan Cooling	
User Interface	LCD, LED (Optional), WLAN + APP				LCD, LED (Optional), WLAN + APP			
Communication	RS485, WiFi or LAN (Optional)		RS485, WiFi or LAN or 4G (Optional)		RS485, WiFi or LAN (Optional)			
Communication Protocols	Modbus-RTU (SunSpec Compliant)		-	-	Modbus-RTU (SunSpec Compliant)			
Weight (kg)	15.0	15.0	15.0	15.0	20.5	20.5	26.0	26.0
Dimension (W × H × D mm)	354 × 433 × 147				415 × 511 × 175			
Topology	Non-isolated							
Self-consumption at Night (W)	<1	<1	<1	<1	<1	<1	<1	<1
Ingress Protection Rating	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65
DC Connector	MC4 (4 ~ 6mm²)							
AC Connector	Plug and play connector				AC Connector			
Country of Manufacture	China	China	China	China	China	China	China	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.

GoodWe-Single page-20230214-AU-V2.1. Information may be subject to change without notice during product improving.