GOODWE

SDT G2 PLUS+ Series

4-20 kW I Three Phase
2 MPPTs

The GoodWe 4-20 kW SDT G2 PLUS+ series inverter is specially designed for three-phase residential and small commercial projects. The integrated features of high efficiency allow for optimized power generation during the inverter's service cycle. With its lightweight and easy-to-install design, the SDT G2 inverter offers comfort and great convenience for operators and installers. Users can also take all-around smart control of energy management utilizing the featuring 24-hour load consumption monitoring enabled by GoodWe HK3000**2. Meet the perfect choice of maximum energy yield for residential and small-scale commercial usage.

Smart Control & Monitoring

Smart Shadow Scan with adjustable scan interval**1
Multi-protocol compatibility for smart home integration

High Generation to Cut Bills

Up to 200% DC input oversizing & 110% AC output overloading
Up to 16 A max. DC input current per string

Superb Safety & Reliability

Optional AFCI**2
Optional exchangeable DC Type II SPD & SPD failure alarm**2

Friendly & Thoughtful Design

Fanless design for quiet operations**3
Elegant and compact design

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Technical Data	GW4000-SDT-20	GW5000-SDT-20	GW6000-SDT-20	GW8000-SDT-20	GW10K-SDT-20	GW12K-SDT-20	GW12KLV-SDT-20	GW15K-SDT-20	GW17K-SDT-20	GW20K-SDT-20
Input										
Max.Input Voltage (V)	1,000	1,000	1,000	1,100	1,100	1,100	800	1,100	1,100	1,100
MPPT Operating Voltage Range (V)	180~850	180~850	180~850	140~950	140~950	140~950	140-650	140~950	140~950	140~950
Start-up Voltage (V)	180	180	180	180	180	180	180	180	180	180
Nominal Input Voltage (V)	620	620	620	620	620	620	370	620	620	620
Max. Input Current per MPPT (A)	16	16	16	15	15	30	30	30	30	30
Max. Short Circuit Current per MPPT (A)	20	20	20	18.7	18.7	37.5	37.5	37.5	37.5	37.5
Number of MPP trackers	2	2	2	2	2	2	2	2	2	2
Number of Strings per MPPT	1	1	1	1	1	2	2	2	2	2
Output										
Nominal Output Power (W)	4000	5000	6000	8000	10000	12000	12000	15000	17000	20000
Nominal Output Apparent Power (VA)	4000	5000	6000	8000	10000	12000	12000	15000	17000	20000
Max. AC Active Power (W)*1	4400	5500	6600	8800	11000	13200	12000	16500	18700	22000
Max. AC Apparent Power (VA)*2	4400	5500	6600	8800	11000	13200	12000	16500	18700	22000
Nominal Output Voltage (V)	400, 3L/N/PE			380/400/415, 3L/N/PE			220/127, 3L/N/PE	380/400/415, 3L/N/PE		
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50 / 60	50/60	50/60	50/60	60	50/60	50/60	50/60
Max. Output Current (A)	6.4	8.0	9.6	12.8	16.0	19.1	31.9	24.0	27.1	32.0
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)									
Max. Total Harmonic Distortion	<3%	<3%	<3%	<3%	<3%	<3%	<3%	<3%	<3%	<3%
Efficiency										
Max. Efficiency	98.2%	98.2%	98.2%	98.3%	98.3%	98.4%	96.9%	98.4%	98.4%	98.4%
European Efficiency	97.6%	97.6%	97.6%	97.6%	97.6%	97.8%	96.4%	97.8%	97.8%	97.8%
Protection										
PV Insulation Resistance Detection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
PV Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Overcurrent Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC Switch	Optional	Optional	Optional	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC Surge Protection	Type III (Type II Optional)									
AC Surge Protection	Type III			Type III (Type II Optional)						
AFCI	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Emergency Power Off	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Rapid Shutdown	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Remote Shutdown	Optional	Optional	Optional	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	-30~+60	-30~+60	-30~+60
Relative Humidity	0~100%	0~100%	0~100%	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	4000	4000	4000
Cooling Method	Natural Convection					Smart Fan Cooling				
Display	LED, LCD(Optional, WLAN+APP									
Communication	RS485, WiFi or LAN or 4G(Optional)									
Weight (kg)	15.0	15.0	15.0	20.5	20.5	23.5	26.0	26.0	26.0	26.0
Dimension W×H×D (mm)	354×433×147			415×511×175		415×511×198				
Noise Emission (dB)	<34	<34	<34	<25	<25	<45	<45	<45	<45	<45
Topology	Non-isolated									
Self-consumption at Night (W)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ingress Protection Rating	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65
DC Connector	MC4 (4~6mm²)									
AC Connector	Plug and play connector			OT Terminal						

*1: For Belgium Max. AC Active Power (W): 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): 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;

**1: For SDT G2 Plus+ 8-20kW only.

**2: Optional functions or devices are purchased separately.

**3: For SDT G2 Plus+ 4-10kW only.

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