

SDT G2 PLUS+ Series

4-20kW | Three Phase | 2 MPPTs

The GoodWe 4-20kW 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^{**1}. 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



Superb Safety & Reliability

- Optional AFCI^{**2}
- Optional exchangeable DC Type II SPD & SPD failure alarm^{**2}



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



Friendly & Thoughtful Design

- Fanless design for quiet operations^{**3}
- Elegant and compact design

^{**1}: For SDT G2 Plus+ 8-20kW only.
^{**2}: Optional functions or devices are purchased separately.
^{**3}: For SDT G2 Plus+ 4-10kW only.

SDT G2 PLUS+ Series

GOODWE

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)	1000	1000	1000	1100	1100	1100	800	1100	1100	1100	
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										
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)	20.0	20.0	20.0	18.7	18.7	37.5	37.5	37.5	37.5	37.5	
Number of MPP trackers	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) ^{**1}	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		
Output Voltage Range (V) (according to local standard)	180 ~ 270										
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	60	50 / 60	50 / 60	50 / 60	
AC Grid Frequency Range (Hz)	45 ~ 55 / 55 ~ 65										
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%										
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										
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 II Optional)										
AC Surge Protection	Type III			Type III (Type II Optional)							
AFCI	Optional										
Emergency Power Off	Optional										
Remote Shutdown	Optional										
General Data											
Operating Temperature Range (°C)	-30 ~ +60										
Relative Humidity	0 ~ 100%										
Max. Operating Altitude (m) ^{**2}	4000										
Cooling Method	Natural Convection					Smart Fan Cooling					
Display	LED, LCD (Optional), WLAN + APP										
Communication	WiFi, RS485 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 x H x D mm)	354 x 433 x 147			415 x 511 x 175				415 x 511 x 198			
Noise Emission (dB)	<34	<34	<34	<25	<25	<50	<50	<50	<50	<50	
Topology	Non-isolated										
Self-consumption at Night (W)	<1										
Ingress Protection Rating	IP65										
DC Connector	MC4 (4 ~ 6mm ²)										
AC Connector	Plug and play connector					OT Terminal					

^{*1}: For Chile Max. AC Active Power (W) & 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.

^{*2}: For Australia, Max. Operating Altitude (m) is 3000.
^{*}: Please visit GoodWe website for the latest certificates.

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