

GOODWE

Maximised energy yield for high-power PV rooftops

- ✓ Maximised energy output
- ✓ Smart and silent operation
- ✓ Modern and compact design
- ✓ Highest safety standards

A perfect fit for three-phase residential and small commercial systems with high-power PV modules, the SDT G3 inverters allow for high current input. The inverters are designed for silent operation, while the optional Type II surge protection on both AC and DC sides enhances overall safety. Smart energy management including load control and 24-hour load consumption monitoring can be facilitated by adding GoodWe accessories.

 Increased yield (110% AC power)

 Optional AFCI 3.0 function

 Smart energy management



SDT G3 Series

String Inverter | 4 - 20kW | 2 MPPTs | Three Phase

EMEA

Technical Data	GW4000-SDT-30	GW5000-SDT-30	GW6000-SDT-30	GW8000-SDT-30	GW10K-SDT-EU30	GW12K-SDT-30	GW15K-SDT-30	GW17K-SDT-30	GW20K-SDT-30
Input									
Max. Input Voltage (V) ¹	1100								
MPPT Operating Voltage Range (V) ²	140 ~ 1000								
Start-up Voltage (V)	160								
Nominal Input Voltage (V)	600								
Max. Input Current per MPPT (A)	22							32 / 22	
Max. Short Circuit Current per MPPT (A)	27.5							40.0 / 27.5	
Number of MPP Trackers	2								
Number of Strings per MPPT	1							2 / 1	
Output									
Nominal Output Power (kW)	4.0	5.0	6.0	8.0	10.0	12.0	15.0	17.0	20
Nominal Output Apparent Power (kVA)	4.0	5.0	6.0	8.0	10.0	12.0	15.0	17.0	20
Max. AC Active Power (kW)	4.4	5.5	6.6	8.8	10.0	13.2	16.5	18.7	22
Max. AC Apparent Power (kVA)	4.4	5.5	6.6	8.8	10.0	13.2	16.5	18.7	22
Nominal Output Voltage (V)	220 / 380, 230 / 400, 240 / 415, 3L / N / PE or 3L / PE								
Output Voltage Range (V) (according to local standard)	180 ~ 280								
Nominal AC Grid Frequency (Hz)	50 / 60								
AC Grid Frequency Range (Hz)	45 ~ 55 / 55 ~ 65								
Max. Output Current (A)	6.7	8.4	10.0	13.4	15.2	20.0	25.0	28.3	33.3
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)								
Max. Total Harmonic Distortion	<3%								
Efficiency									
Max. Efficiency	98.4%	98.4%	98.4%	98.5%	98.5%	98.5%	98.5%	98.5%	98.5%
European Efficiency	98.0%	98.0%	98.0%	98.0%	98.0%	98.2%	98.2%	98.2%	98.2%
Protection									
PV String Current Monitoring					Integrated				
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 II Optional)				
AFCI					Optional				
Remote Shutdown					Integrated				
PID Recovery					Optional				
Power Supply at Night	Integrated		Optional						
General Data									
Operating Temperature Range (°C)	-30 ~ +60								
Relative Humidity	0 ~ 100%								
Max. Operating Altitude (m)	4000								
Cooling Method	Natural Convection							Smart Fan Cooling	
User Interface	LED, LCD (Optional), WLAN + APP								
Communication	RS485, WiFi + LAN + Bluetooth, 4G + Bluetooth (Optional)								
Communication Protocols	Modbus-RTU (SunSpec Compliant), Modbus-TCP								
Weight (kg)	14.7	14.7	14.7	14.7	14.7	16.2	16.2	17.1	17.1
Dimension (W × H × D mm)	491 × 392 × 210							530 × 413 × 227	
Noise Emission (dB)	<30							<45	
Topology	Non isolated								
Self-consumption at Night (W)	<1								
Ingress Protection Rating	IP66								
DC Connector	MC4 (4 ~ 6mm²)								
AC Connector	OT terminal (Max. 10mm²)					OT terminal (Max. 16mm²)		OT terminal (Max. 25mm²)	OT terminal (Max. 16mm²)

*1: When the input voltage is 1000V-1100V, the inverter will enter standby mode. The inverter will return to normal operation state when the voltage returns to the MPPT working voltage range.

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

*: Please visit GoodWe website for the latest certificates.