



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



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 x H x D mm)	491 x 392 x 210							530 x 413 x 227		
Noise Emission (dB)	<30							<45		
Topology	Non isolated									
Self-consumption at Night (W)	<1									
Ingress Protection Rating	IP66									
DC Connector	MC4 (4 ~ 6mm ²)									
AC Connector	OT terminal (Max. 10mm ²)				OT terminal (Max. 16mm ²)			OT terminal (Max. 25mm ²)	OT terminal (Max. 16mm ²)	

*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.