

Maximised energy yield for high-power PV rooftops

- ✓ Maximised energy output
- ✓ Modern and compact design
- ✓ Smart and silent operation
- ✓ 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, which can be facilitated by adding GoodWe accessories.

 Increased yield (110% AC power)

 Optional AFCI 3.0 function

 Smart energy management



Technical Data	GW8000-SDT-30	GW10K-SDT-EU30	GW12K-SDT-30	GW15K-SDT-30	GW17K-SDT-30	GW20K-SDT-30
Input						
Max. Input Voltage (V)	1100					
MPPT Operating Voltage Range (V)	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 (W)	8000	10000	12000	15000	17000	20000
Nominal Output Apparent Power (VA)	8000	10000	12000	15000	17000	20000
Max. AC Active Power (W)	8800	10000	13200	16500	18700	22000
Max. AC Apparent Power (VA)	8800	10000	13200	16500	18700	22000
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)	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	98.5%					
European Efficiency	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	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 or 4G or Bluetooth (Optional)					
Weight (kg)	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)	

*: Please visit GoodWe website for the latest certificates.