


## 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, 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
<b>Input</b>						
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
<b>Output</b>						
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%					
<b>Efficiency</b>						
Max. Efficiency	98.5%					
European Efficiency	98.0%	98.0%	98.2%	98.2%	98.2%	98.2%
<b>Protection</b>						
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		
<b>General Data</b>						
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 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 <sup>2</sup> )					
AC Connector	OT terminal (Max. 10mm <sup>2</sup> )		OT terminal (Max. 16mm <sup>2</sup> )		OT terminal (Max. 25mm <sup>2</sup> )	

\*: Please visit GoodWe website for the latest certificates.