

Maximised energy yield for high-power PV rooftops

- ✓ Maximised energy output
- ✓ Enhanced performance
- ✓ Smart and silent operation
- ✓ Highest safety standards

A perfect fit for three-phase commercial and industrial (C&I) 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. With Arc Fault Circuit Interrupter 3.0 (AFCI 3.0), the safety of the system is assured as the inverter is able to detect arc fault failure, sending alarms through monitoring systems and shutting down the inverter operation simultaneously.

-  Increased yield (110% AC power)
-  Optional AFCI 3.0 and PID functions
-  Smart energy management



Technical Data		GW25K-SDT-30	GW30K-SDT-30	GW40K-SDT-P30
Input				
Max. Input Voltage (V)	1100	1100	1100 ¹	
MPPT Operating Voltage Range (V)	140 ~ 950	140 ~ 950	140 ~ 1000	
Start-up Voltage (V)		160		
Nominal Input Voltage (V)		600		
Max. Input Current per MPPT (A)	40 / 40 / 40	40 / 40 / 40	40	
Max. Short Circuit Current per MPPT (A)	50 / 50 / 50	50 / 50 / 50	56	
Number of MPP Trackers	3	3	4	
Number of Strings per MPPT		2		
Output				
Nominal Output Power (W)	25000	30000	40000	
Nominal Output Apparent Power (VA)	25000	30000	40000	
Max. AC Active Power (W)	25000	30000	40000	
Max. AC Apparent Power (VA)	25000	30000	40000	
Nominal Output Voltage (V)	220 / 380, 230 / 400, 240 / 415, 3L / N / PE or 3L / PE			
Output Voltage Range (V)	180 ~ 260 (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)	37.9	45.5	60.6	
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)			
Max. Total Harmonic Distortion	<3%			
Efficiency				
Max. Efficiency	98.7%	98.7%	98.6%	
European Efficiency	98.3%	98.3%	97.7%	
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 II		
AC Surge Protection		Type II		
AFCI		Optional		
Remote Shutdown		Integrated		
PID Recovery		Optional		
Power Supply at Night	Integrated	Integrated	Optional	
General Data				
Operating Temperature Range (°C)		-30 ~ +60		
Relative Humidity		0 ~ 100%		
Max. Operating Altitude (m)		4000		
Cooling Method		Smart Fan Cooling		
User Interface		LED, LCD (Optional), WLAN + APP		
Communication	RS485, WiFi, LAN or 4G or Bluetooth (Optional)		RS485, WiFi, LAN Bluetooth, 4G (Optional)	
Communication Protocols	Modbus TCP / RTU	Modbus TCP / RTU	Modbus TCP (Optional)	
Weight (kg)	<30	<30	31	
Dimension (W × H × D mm)	585 × 483 × 230	585 × 483 × 230	585 × 483 × 237	
Noise Emission (dB)		<45		
Topology		Non-isolated		
Self-consumption at Night (W)		<1		
Ingress Protection Rating		IP66		
DC Connector		MC4 (Max. 4 ~ 6mm ²)		
AC Connector	OT terminal (Max. 25mm ²)	OT terminal (Max. 25mm ²)	OT terminal (Max. 35mm ²)	

*1: When the input voltage is between 1000V and 1100V, the inverter will enter standby mode. When the voltage returns to 140V-1000V, the inverter will resume normal operation.

*: Please visit GoodWe website for the latest certificates.