

GOODWE

SDT G3 Series

8-30kW | Three Phase | 2 MPPTs

The GoodWe SDT G3 Series, with a power range of 8-30kW, is specifically engineered to cater to the energy needs of three-phase residential and small commercial projects. The inverter boasts an impressive 150% DC oversizing and 110% AC overloading capabilities, allowing for maximum performance and output even in challenging environments. In addition, the SDT G3 Series inverter's lightweight and easy-to-install design offers exceptional convenience for operators and installers alike.



Smart Control & Monitoring

- 24/7 load consumption monitoring
- Export power limit



Friendly & Thoughtful Design

- Fanless cooling for quiet operation²
- Elegant and compact design



Superb Safety & Reliability

- Optional AFCI¹
- IP66 ingress protection
- Optional Type II SPD on both AC and DC sides¹



Flexible & Adaptable Applications

- Up to 150% DC input oversizing & 110% AC output overloading
- Max. 22A DC input current per string
- Optional PID recovery¹

¹: Optional functions or devices are purchased separately.
²: For SDT G3 8-15kW only.

Technical Data		GW8000-SDT-30	GW10K-SDT-30	GW10K-SDT-EU30	GW12K-SDT-30	GW15K-SDT-30	GW17K-SDT-30	GW20K-SDT-30	GW12KLV-SDT-C30	GW17KLV-SDT-C30	GW25K-SDT-C30	GW30K-SDT-C30
Input												
Max. Input Voltage (V)		1100							850		1100	
MPPT Operating Voltage Range (V)		140 ~ 1000							140 ~ 700		140 ~ 1000	
Start-up Voltage (V)		160										
Nominal Input Voltage (V)		600							420		600	
Max. Input Current per MPPT (A)		22					32 / 22		42 / 32		42 / 22 42 / 32	
Max. Short Circuit Current per MPPT (A)		27.5					40.0 / 27.5		52.5 / 40.0		52.5 / 27.5 52.5 / 40.0	
Number of MPP Trackers		2										
Number of Strings per MPPT		1					2 / 1		2		2 / 1 2	
Output												
Nominal Output Power (W)		8000	10000	10000	12000	15000	17000	20000	12000	17000	25000	30000
Nominal Output Apparent Power (VA)		8000	10000	10000	12000	15000	17000	20000	12000	17000	25000	30000
Max. AC Active Power (W) ^{*1}		8800	11000	10000	13200	16500	18700	22000	12000	17000	27500	33000
Max. AC Apparent Power (VA)		8800	11000	10000	13200	16500	18700	22000	12000	17000	27500	33000
Nominal Output Voltage (V)		220 / 380, 230 / 400, 240 / 415, 3L / N / PE or 3L / PE							127 / 220, 3L / N / PE or 3L / PE		220 / 380, 230 / 400, 240 / 415, 3L / N / PE or 3L / PE	
Output Voltage Range (V)		180 ~ 280 (according to local standard)							114 ~ 139 (according to local standard)		180 ~ 280 (according to local standard)	
Nominal AC Grid Frequency (Hz)		50 / 60							60		50 / 60	
AC Grid Frequency Range (Hz)		45 ~ 55 / 55 ~ 65							59.5 ~ 60.2		45 ~ 55 / 55 ~ 65	
Max. Output Current (A) ^{*2}		13.4	16.7	15.2	20.0	25.0	28.3	33.3	33.3	50.0	41.7	50.0
Power Factor		~1 (Adjustable from 0.8 leading to 0.8 lagging)										
Max. Total Harmonic Distortion		<3%										
Efficiency												
Max. Efficiency		98.5%	98.5%	98.5%	98.5%	98.5%	98.5%	98.5%	98.2%	97.5%	98.6%	98.6%
European Efficiency		98.0%	98.0%	98.0%	98.2%	98.2%	98.2%	98.2%	97.2%	96.9%	98.2%	98.3%
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)				Type II		Type III (Type II Optional)		
AC Surge Protection							Type III (Type II Optional)					
AFCI							Optional					
Emergency Power Off							Optional					
Rapid Shutdown							Optional					
Remote Shutdown							Optional					
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	14.7	16.2	16.2	17.1	17.1	17.1	20.5	19.7	20.5
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 ~ 6mm²)					
AC Connector		OT terminal (Max. 10mm²)			OT terminal (Max. 16mm²)				OT terminal (Max. 25mm²)	OT terminal (Max. 16mm²)	OT terminal (Max. 25mm²)	

*1: For Brazil and Chile, the Max. AC Active Power (W): GW8000-SDT-30 is 8000, GW10K-SDT-30 is 10000, GW12K-SDT-30 is 12000, GW15K-SDT-30 is 15000, GW17K-SDT-30 is 17000, GW20K-SDT-30 is 20000, GW12KLV-SDT-C30 is 12000, GW17KLV-SDT-C30 is 17000, GW25K-SDT-C30 is 25000, GW30K-SDT-C30 is 30000.

*2: For Brazil and Chile, Max. Output Current (A): GW8000-SDT-30 is 12.1, GW10K-SDT-30 is 15.2, GW12K-SDT-30 is 18.2, GW15K-SDT-30 is 22.7,

GW17K-SDT-30 is 25.8, GW20K-SDT-30 is 30.3, GW12KLV-SDT-C30 is 18.2, GW17KLV-SDT-C30 is 25.8, GW25K-SDT-C30 is 37.9, GW30K-SDT-C30 is 45.5.

*: Please visit GoodWe website for the latest certificates.

**: All pictures shown are for reference only. Actual appearance may vary.