GOODWE

SDT G3 Series

25-40kW I Three Phase I 3/4 MPPTs

GoodWe's SDT G3 Series inverter is designed for three-phase residential and commercial applications. With a capacity range of 25kW to 40kW, it offers flexible options to meet various power requirements. Additionally, its high efficiency, smart functions and user-friendly design ensure increased ROI while delivering ultimate convenience.



Wide Compatibility

- Max. 21A input current per string
- Up to 180% PV input oversizing
- Wide MPPT voltage range

Flexible & Adaptable Applications

- Mixed parallel connection with GoodWe SDT G3 Series
- Easy parallel through GoodWe smart dongle Ezlink3000

Superb Safety & Reliability

- In-built Type II SPD on AC & DC sides[1]
- AI-driven AFCI[2]

Friendly & Thoughtful Design

- Lightweight design for easy installation
- Quiet operation under 45dB

1: For GW25K-SDT-30, GW30K-SDT-30, GW40K-SDT-P30 only.
2: Optional functions or devices are purchased separately.

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Technical Data	GW25K-SDT-30	GW30K-SDT-30	GW33K-SDT-C30	GW36K-SDT-C30	GW40K-SDT-C30	GW40K-SDT-P30
Input						
Max. Input Voltage (V)	1100					1100[*1]
MPPT Operating Voltage Range (V)	140 ~ 950	140 ~ 950	140 ~ 1000	140 ~ 1000	140 ~ 1000	140 ~ 1000
Start-up Voltage (V)	160					
Nominal Input Voltage (V)	600					
Max. Input Current per MPPT (A)	40 / 40 / 40		42 / 42 / 32			40
Max. Short Circuit Current per MPPT (A)	50 / 50 / 50		52.5 / 52.5 / 40			56
Number of MPP Trackers	3	3	3	3	3	4
Number of Strings per MPPT	2					
Output						
Nominal Output Power (W)	25000	30000	33000	36000	40000	40000
Nominal Output Apparent Power (VA)	25000	30000	33000	36000	40000	40000
Max. AC Active Power (W)	25000	30000	33000	36000	40000	40000
Max. AC Apparent Power (VA)	25000	30000	33000	36000	40000	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 (according to local standard)			180 ~ 280
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50	50	50	50 / 60
AC Grid Frequency Range (Hz)	45 ~ 55 / 55 ~ 65	45 ~ 55 / 55 ~ 65	45 ~ 55	45 ~ 55	45 ~ 55	45 ~ 55 / 55 ~ 65
Max. Output Current (A)	37.9	45.5	50.1	54.6	60.7	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%	98.6%	98.6%	98.6%
European Efficiency	98.3%	98.3%	97.8%	97.8%	97.8%	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	Type II	Type III (Type II Optional)			Type II
AC Surge Protection	Type II	Type II	Type III (Type II Optional)			Type II
AFCI	Optional					
Emergency Power Off	-	-	Optional	Optional	Optional	Optional
Rapid Shutdown	-	-	-	-	-	Optional
Remote Shutdown	Integrated	Integrated	Optional	Optional	Optional	Optional
PID Recovery	Optional					
Power Supply at Night	Integrated	Integrated	Optional	Optional	Optional	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 or 4G (Optional)			RS485, WiFi, LAN Bluetooth, 4G (Optional)
Communication Protocols	Modbus TCP / RTU		Modbus TCP			Modbus TCP (Optional)
Weight (kg)	<30	<30	28	28	28	31
Dimension (W × H × D mm)	585 × 483 × 230					585 × 483 × 237
Noise Emission (dB)	<45	<45	45	45	45	<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. 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.

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