

Small, But Powerful

SDT G2 Series

Dual-MPPT, Three-Phase

- Up to 98.3% Max. Efficiency
- Compatible with bifacial modules
- 50% DC input oversizing
- 10% AC output overloading
- Arc-fault circuit interrupter
- Easy for O & M



The inverter SDT G2 from GoodWe is one of the best options available on the residential & commercial markets thanks to its technical strengths that make it one of the most efficient in the market. For enhanced safety, this inverter is able to incorporate AFCI as well as terminal temperature detection. Its high efficiency (98.3%), its enhanced oversizing & overloading capabilities represent an outstanding improvement in the industry. Moreover, its plug-in AC connector is easy for operation & maintenance.

Technical Data	GW4K-DT	GW5K-DT	GW6K-DT	GW8K-DT	GW10KT-DT
PV String Input Data					
Max. DC Input Power (Wp)	6000	7500	9000	12000	15000
Max. DC Input Voltage (V)	1000	1000	1000	1000	1000
MPPT Range (V)	180~850	180~850	180~850	180~850	180~850
Start-up Voltage (V)	160	160	160	160	160
Max. Input Current (A)	12.5/12.5	12.5/12.5	12.5/12.5	12.5/12.5	12.5/12.5
Max. Short Current (A)	15.6/15.6	15.6/15.6	15.6/15.6	15.6/15.6	15.6/15.6
No. of MPP Trackers	2	2	2	2	2
No. of Input Strings Per MPP Tracker	1/1	1/1	1/1	1/1	1/1
AC Output Data					
Nominal Output Power (W)	4000	5000	6000	8000	10000
Max. Output Apparent Power (VA)	4400	5500	6600	8800	11000
Nominal Output Voltage (V)	400, 3L/N/PE				
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
Max. Output Current (A)	6.4	8	9.6	12.8	16
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)				
Output THDi (@Nominal Output)	<3%	<3%	<3%	<3%	<3%
Efficiency					
Max. Efficiency	98.2%	98.2%	98.2%	98.2%	98.3%
European Efficiency	>97.6%	>97.6%	>97.6%	>97.6%	>97.7%
Protection					
Anti-Islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Insulation Resistor Detection	Integrated	Integrated	Integrated	Integrated	Integrated
DC Surge Protection	Integrated(Type III)	Integrated(Type III)	Integrated(Type III)	Integrated(Type III)	Integrated(Type III)
AC Surge Protection	Integrated(Type III)	Integrated(Type III)	Integrated(Type III)	Integrated(Type III)	Integrated(Type III)
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated
Output Over Current Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Output Short Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Output Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Arc Fault Circuit Interrupter	Optional	Optional	Optional	Optional	Optional
Terminal Temperature Detection	Optional	Optional	Optional	Optional	Optional
General Data					
Operating Temperature Range (°C)	-30~60	-30~60	-30~60	-30~60	-30~60
Relative Humidity	0~100%	0~100%	0~100%	0~100%	0~100%
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000	≤4000
Cooling	Natural Cooling	Natural Cooling	Natural Cooling	Fan Cooling	Fan Cooling
User Interface	LED or LCD	LED or LCD	LED or LCD	LED or LCD	LED or LCD
Communication	WiFi or LAN(Optional)	WiFi or LAN(Optional)	WiFi or LAN(Optional)	WiFi or LAN(Optional)	WiFi or LAN(Optional)
Weight (kg)	15	15	15	16	16
Size (Width*Height*Depth mm)	354*433*147	354*433*147	354*433*147	354*433*155	354*433*155
Protection Degree	IP65	IP65	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1	<1	<1
Topology	Transformerless				
Certifications & Standards					
Grid Regulation	VDE-AR-N 4105, EN50549/VDE0126-1-1, AS/NZS 4777.2, CEI-021, IEC61727				
Safety Regulation	IEC62109-1&-2				
EMC	EN 61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-4-16, EN61000-4-18, EN61000-4-29				