

ATON

TURN ON YOUR

CREATE A NEW ERA OF SMART ENERGY

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Smart Photovoltaic Inverter Series

VERGI

SOLAR ENERGY



SDT Series

4-15kW | 2 MPPT | Three Phase

The GoodWe SDT Series is one of the best options available on the residential & commercial segments 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 connector temperature detection. Its high efficiency (98.3%) and its enhanced oversizing & overloading capabilities represent an outstanding improvement in the industry. Moreover, its plug-in AC connector make operation & maintenance easier.



Up to 98.3% Max. Efficiency

50% DC input oversizing

10% AC output overloading

Arc-fault circuit interrupter

Easy for installation and O&M

SDT Series

Technical Data	GW4K-DT	GW5K-DT	GW6K-DT	GW8K-DT	GW10K-DT	GW12K-DT	GW15K-DT
PV String Input Data							
Max. DC Input Power (W)	6000	7500	9000	12000	15000	18000	22500
Max. DC Input Voltage (V)	1000	1000	1000	1000	1000	1000	1000
MPPT Operating Voltage Range (V)	180-850	180-850	180-850	180-850	180-850	180-850	180-850
Start-Up Voltage (V)	180	180	180	180	180	180	180
Nominal DC Input Voltage (V)	620	620	620	620	620	620	620
Max. Input Current per MPPT (A)	12.5 / 12.5	12.5 / 12.5	12.5 / 12.5	12.5 / 12.5	12.5 / 12.5	12.5 / 25	12.5 / 25
Max. Short-Circuit Current per MPPT (A)	15.8 / 15.8	15.8 / 15.8	15.8 / 15.8	15.8 / 15.8	15.8 / 15.8	15.8 / 31.2	15.8 / 31.2
Number of MPPT	2	2	2	2	2	2	2
Number of strings per MPPT	1/1	1/1	1/1	1/1	1/1	1/2	1/2
AC Output Data							
Nominal Output Power (W)	4000	5000	6000	8000	10000	12000	15000
Max. Output Apparent Power (VA)	4800*	6000*	6800*	8800*	11000*	14000*	18500*
Nominal Output Voltage (V)	400: 3L / N / PE						
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60
Max. Output Current (A)	6.4	8	9.6	12.8	16	20.8	24
Output Power Factor	-1 (Adjustable from 0.8 leading to 0.8 lagging)						
Max. Total Harmonic Distortion	<3%	<3%	<3%	<3%	<3%	<3%	<3%
Efficiency							
Max. Efficiency	98.2%	98.2%	98.2%	98.2%	98.3%	98.3%	98.3%
European Efficiency	>97.6%	>97.6%	>97.6%	>97.6%	>97.6%	>97.6%	>97.7%
Protection							
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC Insulation Resistor Detection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC Surge Protection	Type III						
AC Surge Protection	Type III						
Remote Control Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Over Current Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC Arc Fault Circuit Interrupter	Optional	Optional	Optional	Optional	Optional	Optional	Optional
General Data							
Operating Temperature Range (°C)	-30-60	-30-60	-30-60	-30-60	-30-60	-30-60	-30-60
Relative Humidity	0-100%	0-100%	0-100%	0-100%	0-100%	0-100%	0-100%
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000
Cooling Method	Natural Convection				Smart Fan Cooling		
Display	LCD / LED (VA / B/Lambda/APP)						
Communication	Wi-Fi / LAN / RS485						
Weight (Kg)	16	16	16	16	16	16	16
Size (Width × Height × Depth mm)	364 × 433 × 147	364 × 433 × 147	364 × 433 × 147	364 × 433 × 155	364 × 433 × 155	364 × 433 × 155	364 × 433 × 155
Ingress Protection Rating	IP65	IP65	IP65	IP65	IP65	IP65	IP65
Night Power Consumption (W)	<1	<1	<1	<1	<1	<1	<1
Topology	Transformerless						

* For Region: Max. Output Apparent Power (VA): GW4K-DT is 4000 GW5K-DT is 5000 GW6K-DT is 6000 GW8K-DT is 8000 GW10K-DT is 10000 GW12K-DT is 12000 GW15K-DT is 15000
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