

# SDT Series

Dual-MPPT, Three-Phase



Technical Data	GW5000 -DT	GW5000L -DT	GW6000L -DT	GW8000 -DT	GW10KN -DT	GW10KL -DT	GW12KN -DT	GW15KN -DT	GW17KN -DT	GW20KN -DT
<b>PV String Input Data</b>										
Max. DC Input Power (W)	6500	6500	7800	9600	12000	12000	16800	19500	22100	26000
Max. DC Input Voltage (V)	1000	600	600	1000	1000	600	1000	1000	1000	1000
PV Input Operating Voltage range(V)	180~1000	180~600	180~600	180~1000	180~1000	180~600	180~1000	180~1000	180~1000	180~1000
Max. Inverter Backfeed Current To The array (A)	0	0	0	0	0	0	0	0	0	0
MPPT Range (V)	200~800	200~550	200~50	200~850	200~850	200~550	200~850	200~850	200~950	200~950
Start-up Voltage (V)	180	180	180	180	180	180	180	180	180	180
Min. Feed-in Voltage(V)	210	210	210	210	210	210	210	210	210	210
Nominal DC Input Voltage (V)	620	480	480	620	620	480	620	620	600	600
Max. Input Current (A)	11/11	11/11	11/11	11/11	11/11	22/11	22/11	22/11	22/22	22/22
Max. Short Current (A)	13.8/13.8	13.8/13.8	13.8/13.8	13.8/13.8	13.8/13.8	27.6/13.8	27.6/13.8	27.6/13.8	27.5/27.5	27.5/27.5
No. of MPPT Trackers	2	2	2	2	2	2	2	2	2	2
No. of Input Strings per Tracker	1/1	1/1	1/1	1/1	1/1	2/1	2/1	2/1	2/2	2/2
<b>AC Output Data</b>										
Nominal Output Power (W)	5000*1	5000	6000	8000*1	10000*1	10000	12000	15000	17000	20000
Max. Output Apparent Power (VA)	5000	5000	6000	8000	10000	10000	14000	16500	19000	22000
Nominal Output Voltage (V)	400,3L/N/PE								400, 3L/N/PE or 3L/PE	
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Max. Output Current (A)	8.5	8.5	10	12.1	15.2	15.2	21.5	24	28.8	31.9
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)									
Output THDi (@Nominal Output)	<2%	<2%	<2%	<2%	<2%	<2%	<2%	<2%	<3%	<3%
Current (inrush)	125A/2us	125A/2us	125A/2us	125A/2us	125A/2us	125A/2us	125A/2us	125A/2us	125A/2us	125A/2us
Maximum Output Fault Current	33A/5ms	33A/5ms	33A/5ms	33A/5ms	33A/5ms	33A/5ms	33A/5ms	33A/5ms	80A/5ms	80A/5ms
Maximum Output Over Current Protection(A)	14	15.5	15.5	20	20	20	31	31	36.5	41
<b>Efficiency</b>										
Max. Efficiency	98.0%	98.0%	98.0%	98.3%	98.3%	98.3%	98.3%	98.3%	98.6%	98.6%
European Efficiency	>97.5%	>97.5%	>97.5%	>98.0%	>98.0%	>98.0%	>98.0%	>98.0%	>98.1%	>98.1%
<b>Protection</b>										
PV String current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Insulation Resistor Detection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Output Over Current Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Output Short Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Output Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC SPD Protection	Integrated(Type III)									
AC SPD Protection	Integrated(Type III)									
Protective Class	Class I	Class I	Class I	Class I	Class I	Class I	Class I	Class I	Class I	Class I
Decisive Voltage Classification(DVC)	C	C	C	C	C	C	C	C	C	C
<b>General Data</b>										
Operating Temperature Range (°C)	-25~60	-25~60	-25~60	-25~60	-25~60	-25~60	-25~60	-25~60	-25~60	-25~60
Relative Humidity	0~100%	0~100%	0~100%	0~100%	0~100%	0~100%	0~100%	0~100%	0~100%	0~100%
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000
Cooling	Natural Convection					Natural Cooling			Fan Cooling	
Noise (dB)	<30	<30	<30	<30	<30	<30	<40	<40	45	45
User Interface	LCD & LED	LCD & LED	LCD & LED	LCD & LED	LCD & LED	LCD & LED	LCD & LED	LCD & LED	LCD & LED	LCD & LED
Communication	RS485 or WiFi or LAN						RS485 or WiFi			
Weight (kg)	24	24	24	24	24	26	26	26	26	26
Size (Width*Height*Depth mm)	516*415*192								516*455*220	
Protection Degree	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Topology	Transformerless									

\*1: For CEI 0-21 Nominal Output Power GW4000-DT is 3605, GW5000-DT is 4550, GW6000-DT is 5450, GW8000-DT is 7250, GW9000-DT is 8150, GW10KN-DT is 9050.

\*: Please visit GoodWe website for the latest certificates.