

# SDT Series

Dual-MPPT, Three-Phase



Technical Data	GW5000-DT	GW6000-DT	GW8000-DT	GW10KL-DT
<b>PV String Input Data</b>				
Max. DC Input Power (Wp)	6650	8000	10640	13300
Max. DC Input Voltage (V)	1000	1000	1000	600
MPPT Range (V)	200~800	200~800	200~850	200~550
Start-up Voltage (V)	180	180	180	180
Max. Input Current (A)	11/11	11/11	11/11	22/11
Max. Short Current (A)	13.8/13.8	13.8/13.8	13.8/13.8	27.6/13.8
No. of MPP Trackers	2	2	2	2
No. of Input Strings per MPP Tracker	1/1	1/1	1/1	2/1
<b>AC Output Data</b>				
Nominal Output Power (W)	5000*1	6000*1	8000	10000
Max. Output Apparent Power (VA)	5000	6000	8800	10000
Nominal Output Voltage (V)	400, 3L/N/PE			
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60
Max. Output Current (A)	8.5	10	12.1	15.2
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)			
Output THDi (@Nominal Output)	<2%	<2%	<2%	<2%
<b>Efficiency</b>				
Max. Efficiency	98.0%	98.0%	98.3%	98.3%
European Efficiency	>97.5%	>97.5%	>98.0%	>98.0%
<b>Protection</b>				
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated
Insulation Resistor Detection	Integrated	Integrated	Integrated	Integrated
DC Surge Protection	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)
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated
Output Over Current Protection	Integrated	Integrated	Integrated	Integrated
Output Short Protection	Integrated	Integrated	Integrated	Integrated
Output Over Voltage Protection	Integrated	Integrated	Integrated	Integrated
<b>General Data</b>				
Operating Temperature Range (°C)	-25~60	-25~60	-25~60	-25~60
Relative Humidity	0~100%	0~100%	0~100%	0~100%
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000
Cooling	Natural Convection	Natural Convection	Natural Convection	Natural Cooling
User Interface	LCD & LED	LCD & LED	LCD & LED	LCD & LED
Communication	RS485 or WiFi	RS485 or WiFi	RS485 or WiFi	RS485 or WiFi
Weight (kg)	24	24	24	26
Size (Width*Height*Depth mm)	516*415*192	516*415*192	516*415*192	516*455*192
Protection Degree	IP65	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1	<1
Topology	Transformerless			
<b>Certifications &amp; Standards</b>				
Grid Regulation	VDE0126-1-1, VDE-AR-N 4105, AS4777.2, EN50438(PL), EN50438(SW), EN50438(IR), G83, ERDF-NOI-RES_13E, IEC61727, IEC62116, CEI 0-21	VDE0126-1-1, AS4777.2, G83, IEC61727, IEC62116, EN50438(SW), EN50438(IR)	VDE0126-1-1, AS4777.2, G83, IEC61727, IEC62116, EN50438(SW), EN50438(IR), CEI 0-21	
Safety Regulation	IEC62109-1&-2			
EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-4-16, EN61000-4-18, EN61000-4-29			

\*1: For CEI 0-21 Nominal Output Power GW5000-DT is 4550, GW6000-DT is 5450.