

SDT Series

Dual MPPT, Three Phase



Technical Data	GW5000L-DT	GW6000L-DT	GW10KL-DT	GW15KN-DT
PV String Input Data				
Max. DC Input Power (W)	6650	7980	13300	19950
Max. DC Input Voltage (V)	600	600	600	1000
MPPT Range (V)	200~550	200~550	200~550	200~850
Start-up Voltage (V)	180	180	180	180
MPPT Range for Full Load (V)	240~550	285~550	320~550	480~850
Nominal DC Input Voltage (V)	480	480	480	620
Max. Input Current (A)	11/11	11/11	22/11	22/11
Max. Short Current (A)	13.8/13.8	13.8/13.8	27.6/13.8	27.6/13.8
No. of MPP Trackers	2	2	2	2
No. of Input Strings per Tracker	1/1	1/1	2/1	2/1
AC Output Data				
Nominal Output Power (W)	5000	6000	10000	15000
Max. Output Apparent Power (VA)	5000	6000	10000	16500
Nominal Output Voltage (V)	400, 3L/N/PE	400, 3L/N/PE	400, 3L/N/PE	400, 3L/N/PE
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60
Max. Output Current (A)	8.5	10	15.2	24
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)			
Output THDi (@Nominal Output)	<2%	<2%	<2%	<2%
Efficiency				
Max. Efficiency	98.0%	98.0%	98.3%	98.3%
Euro Efficiency	>97.5%	>97.5%	>98.0%	>98.0%
Protection				
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated
Insulation Resistor Detection	Integrated	Integrated	Integrated	Integrated
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
General Data				
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			
Noise (dB)	<30	<30	<30	<40
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	26	26
Size (Width*Height*Depth mm)	516*415*192	516*415*192	516*455*192	516*455*192
Protection Degree	IP65	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1	<1
Topology	Transformerless			
Certifications & Standards				
Grid Regulation	AS4777.2 VDE0126-1-1, VDE-AR-N 4105, EN50438, CEI 0-21		VDE0126-1-1, AS4777.2, G83, IEC61727, IEC62116, EN50438(SW), EN50438(IR), CEI 0-21	
Safety Regulation	IEC62109-1&2			
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-4-16, EN 61000-4-18, EN 61000-4-29			

*: Maximum operating voltage is 950V.

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