

SDT G2 Series

Dual-MPPT, Three-Phase



Technical Data	GW4K-DT	GW5K-DT	GW6K-DT	GW8K-DT	GW10KL-DT
PV String Input Data					
Max. DC Input Power (Wp)	6000	7500	9000	10640	13300
Max. DC Input Voltage (V)	1000	1000	1000	1000	600
MPPT Range (V)	180~850	180~850	180~850	200~850	200~550
Start-up Voltage (V)	160	160	160	180	180
Max. Input Current (A)	12.5/12.5	12.5/12.5	12.5/12.5	11/11	22/11
Max. Short Current (A)	15.6/15.6	15.6/15.6	15.6/15.6	13.8/13.8	27.6/13.8
No. of MPP Trackers	2	2	2	2	2
No. of Input Strings Per MPP Tracker	1/1	1/1	1/1	1/1	2/1
AC Output Data					
Nominal Output Power (W)	4000	5000	6000	8000	10000
Max. Output Apparent Power (VA)	4400	5500	6600	8800	10000
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	12.1	15.2
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)				
Output THDi (@Nominal Output)	<3%	<3%	<3%	<2%	<2%
Efficiency					
Max. Efficiency	98.2%	98.2%	98.2%	98.3%	98.3%
European Efficiency	>97.6%	>97.6%	>97.6%	>98.0%	>98.0%
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	NA	NA
Terminal Temperature Detection	Optional	Optional	Optional	NA	NA
General Data					
Operating Temperature Range (°C)	-30~60	-30~60	-30~60	-25~60	-25~60
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	Natural Convection	Natural Cooling
User Interface	LED or LCD	LED or LCD	LED or LCD	LCD & LED	LCD & LED
Communication	WiFi or LAN(Optional)	WiFi or LAN(Optional)	WiFi or LAN(Optional)	RS485 or WiFi	RS485 or WiFi
Weight (kg)	15	15	15	24	26
Size (Width*Height*Depth mm)	354*433*147	354*433*147	354*433*147	516*415*192	516*455*192
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,EN 50549/VDE0126-1-1,AS/NZS 4777.2,CEI-021,IEC61727			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	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				