

SDT G2 Series

Dual-MPPT, Three-Phase



Technical Data	GW4K-DT	GW4KL-DT	GW5K-DT	GW5KL-DT	GW6K-DT	GW6KL-DT	GW8K-DT	GW10KT-DT
PV String Input Data								
Max. DC Input Power (Wp)	6000	6000	7500	7500	9000	9000	12000	15000
Max. DC Input Voltage (V)	1000	600	1000	600	1000	600	1000	1000
MPPT Range (V)	180~850	180~550	180~850	180~550	180~850	180~550	180~850	180~850
Start-up Voltage (V)	160	160	160	160	160	160	160	160
Max. Input Current (A)	12.5/12.5	12.5/12.5	12.5/12.5	12.5/12.5	12.5/12.5	12.5/12.5	12.5/12.5	12.5/12.5
Max. Short Current (A)	15.6/15.6	15.6/15.6	15.6/15.6	15.6/15.6	15.6/15.6	15.6/15.6	15.6/15.6	15.6/15.6
No. of MPP Trackers	2	2	2	2	2	2	2	2
No. of Input Strings per MPP Tracker	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
AC Output Data								
Nominal Output Power (W)	4000	4000	5000	5000	6000	6000	8000	10000
Max. Output Apparent Power (VA)	4400	4400	5500	5500	6600	6600	8800	11000
Nominal Output Voltage (V)	400, 3L/N/PE;	400, 3L/N/PE;	400, 3L/N/PE;	400, 3L/N/PE;	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	50/60	50/60	50/60	50/60
Max. Output Current (A)	6.4	6.4	8	8	9.6	9.6	12.8	16
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)							
Output THDi (@Nominal Output)	<3%	<3%	<3%	<3%	<3%	<3%	<3%	<3%
Efficiency								
Max. Efficiency	98.2%	98.0%	98.2%	98.0%	98.2%	98.0%	98.2%	98.3%
European Efficiency	>97.6%	>97.5%	>97.6%	>97.5%	>97.6%	>97.5%	>97.6%	>97.7%
Protection								
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Insulation Resistor Detection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC Surge Protection	Integrated(Type III)							
AC Surge Protection	Integrated(Type III)							
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Output Over Current Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Output Short Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Output Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Arc Fault Circuit Interrupter	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Terminal Temperature Detection	Optional	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	-30~60
Relative Humidity	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
Cooling	Natural Cooling						Fan Cooling	
User Interface	LED or LCD	LED or LCD	LED or LCD	LED or LCD	LED or LCD	LED or LCD	LED or LCD	LED or LCD
Communication	WiFi or LAN(Optional)							
Weight (kg)	15	15	15	15	15	15	16	16
Size (Width*Height*Depth mm)	354*433*147	354*433*147	354*433*147	354*433*147	354*433*147	354*433*147	354*433*155	354*433*155
Protection Degree	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1	<1	<1	<1	<1	<1
Topology	Transformerless							
Certifications & Standards								
Grid Regulation	VDE-AR-N 4105, EN50549/VDE0126-1-1, AS/NZS 4777.2, CEI-021, IEC61727							
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							