

SDT G2 Series

Dual-MPPT, Three-Phase



Technical Data	GW5K-DT	GW6K-DT	GW8KAU-DT	GW10KAU-DT	GW15KAU-DT	GW20KAU-DT
Input						
Max.Input Power (W)	7500	9000	12000	15000	22500	30000
Max.Input Voltage (V)	1000	1000	1100	1100	1100	1100
MPPT Operating Voltage Range (V)	180~850	180~850	140~950	140~950	140~950	140~950
Start-up Voltage (V)	160	160	180	180	180	180
Nominal Input Voltage (V)	620	620	620	620	620	620
Max. Input Current per MPPT (A)	12.5 / 12.5	12.5 / 12.5	30 / 30	30 / 30	30 / 30	30 / 30
Max. Short Circuit Current per MPPT (A)	15.6 / 15.6	15.6 / 15.6	37.5 / 37.5	37.5 / 37.5	37.5 / 37.5	37.5 / 37.5
Number of MPPT	2	2	2	2	2	2
Number of Strings per MPPT	1	1	2	2	2	2
Output						
Nominal Output Power (W)	5000	6000	8000	10000	15000	20000
Nominal Output Apparent Power (VA)	5000	6000	8000	10000	15000	20000
Max. AC Apparent Power (VA)	5500*1	6600*1	8800	11000	16500	22000
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
Output Voltage Range (V)	180~270	180~270	180~260	180~260	180~260	180~260
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50	50	50	50
AC Grid Frequency Range (Hz)	45~55 / 55~65	45~55 / 55~65	47~52	47~52	47~52	47~52
Max. Output Current (A)	8	9.6	12.8	16	24	31.9
Nominal Output Current (A)	7.2	8.7	11.6	14.5	21.7	28.9
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)					
Max. Total Harmonic Distortion	<3%	<3%	<3%	<3%	<3%	<3%
Efficiency						
Max. Efficiency	98.2%	98.2%	98.4%	98.4%	98.4%	98.4%
European Efficiency	>97.6%	>97.6%	97.5%	97.5%	97.5%	97.5%
Protection						
DC Insulation Resistance Detection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Overcurrent Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC Surge Arrester	Type III	Type III	Type II	Type II	Type II	Type II
AC Surge Arrester	Type III	Type III	Type III	Type III	Type III	Type III
DC Arc Fault Circuit Interrupter	Optional	Optional	Optional	Optional	Optional	Optional
General Data						
Operating Temperature Range (°C)	-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%
Max. Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000	≤4000	≤4000
Cooling Method	Natural Convection	Natural Convection	Natural Convection	Natural Convection	Smart Fan Cooling	Smart Fan Cooling
Display	LED, LCD / Wi-Fi+APP		LED, LCD / Wi-Fi+APP / Bluetooth+APP			
Communication	Wi-Fi / LAN / RS485					
Communication Protocol	SunSpec Modbus					
Weight (Kg)	15	15	20.5	20.5	26	26
Dimension (W × H × Dmm)	354 × 433 × 147	354 × 433 × 147	415 × 511 × 175	415 × 511 × 175	415 × 511 × 175	415 × 511 × 175
Topology	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless
Night Power Consumption (W)	<1	<1	<1	<1	<1	<1
Ingress Protection Rating	IP65	IP65	IP65	IP65	IP65	IP65
DC Connector	MC4 (2.5~4mm ²)					
Country of Manufacture	China					

*1: For Belgium Max. Output Apparent Power (VA): GW5K-DT is 5000; GW6K-DT is 6000.

*: Please visit GoodWe website for the latest certificates.