

PV String Input Data

Model	GW3000-NS	GW5000D-NS	GW5000-DT	GW10KN-DT
Max. DC Input Power (W)	3900	6500	6500	12000
Max. DC Input Voltage (V)	500	600	1000	1000
MPPT Range (V)	80-450	80-550	200-800	200-850
Star-up Voltage (V)	80	120	180	180
MPPT Range for Full Load (V)	215-450	250-550	240-800	480-850
Nominal DC Input Voltage (V)	360	360	620	620
Max. Input Current (A)	18	11/11	11/11	11/11
Max. Short Current (A)	22.5	13.8/13.8	13.8/13.8	13.8
No. of MPP Trackers	1	2	2	2
No. of Input Strings per Tracker	1	1	1/1	1/1

AC Output Data

Nominal Output Power (W)	3000	5000	5000	10000
Max. Output Apparent Power (VA)	3000	5000	5000	10000
Nominal Output Voltage (V)	220/230	220/230	400, 3L/N/PE	400, 3L/N/PE
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60
Max. Output Current (A)	13.5	22.8	8.5	15.2
Output Power Factor	~1 (Adjustable from 8.0 leading to 0.8 lagging)			
Output THDi (@Nominal Output)	<3%	<3%	<2%	<2%
Recommended AC Circuit Breaker	25A 2P	32A 2P	16A 3P	25A 3P

Efficiency

Max. Efficiency	97.5%	97.8%	98.0%	98.3%
Euro Efficiency	97.0%	97.5%	97.5%	98.0%

Protection

PV String Current Monitoring	-	-	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated
Insulation Resistor Detection	Integrated	Integrated	Integrated	Integrated
DC SPD Protection	-	-	Type III	Type III
AC SPD Protection	-	-	Type III	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

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	Natural Convection	Natural Convection	Natural Convection
Noise (dB)	<25	<25	<30	<30
User Interface	LCD & LED	LCD & LED	LCD & LED	LCD & LED
Communication	WiFi	WiFi	WiFi	WiFi
Weight (kg)	7.5	13	24	24
Protection Degree	IP65	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1	<1
Topology	Transformerless	Transformerless	Transformerless	Transformerless
Approved Inverter List*	อุปกรณ์ผ่านมาตรฐาน ทฟน.	อุปกรณ์ผ่านมาตรฐาน ทฟท. และ ทฟน.	อุปกรณ์ผ่านมาตรฐาน ทฟท. และ ทฟน.	อุปกรณ์ผ่านมาตรฐาน ทฟท. และ ทฟน.

* • MEA Inverter List : Updated 20/05/2022 • PEA Inverter List : Updated 18/04/2022

Certifications & Standards

Model	GW3000-NS	GW5000D-NS	GW5000-DT	GW10KN-DT
Grid Regulation	VDE-AR-N 4105, VDE0126-1-1, EN50438(PL), EN50438(SW), AS4777.2, G83, IEC61727, IEC62116, CEI 0-21, RD 1699:2011, UNE 206006 IN: 2011, UNE 206007-1 IN: 2013	VDE-AR-N 4105, VDE0126-1-1, EN50438(PL), EN50438(SW), AS4777.2, G59, IEC61727, MEA, PEA, IEC62116, CEI 0-21, RD 1699:2011, UNE 206006 IN: 2011, UNE 206007-1 IN: 2013	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), 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			
Price	24,500.-	31,000.-	49,500.-	58,000.-