

Technical Parameters	GW5K-ET	GW6.5K-ET	GW8K-ET	GW10K-ET
<b>Battery Input Data</b>				
Battery Type	Li-Ion	Li-Ion	Li-Ion	Li-Ion
Nominal Battery Voltage (V)	500	500	500	500
Battery Voltage Range (V)	180~600	180~600	180~600	180~600
Start-up Voltage (V)	180	180	180	180
Number of Battery Input	1	1	1	1
Max. Continuous Charging Current (A)	25	25	25	25
Max. Continuous Discharging Current (A)	25	25	25	25
Max. Charge Power (W)	7,500	8,450	9,600	10,000
Max. Discharge Power (W)	7,500	8,450	9,600	10,000
<b>PV String Input Data</b>				
Max. Input Power (W)	7,500	9,700	12,000	15,000
Max. Input Voltage (V) <sup>*1</sup>	1000	1000	1000	1000
MPPT Operating Voltage Range (V) <sup>*2</sup>	200~850	200~850	200~850	200~850
MPPT Voltage Range at Nominal Power (V) <sup>*3</sup>	240~850	310~850	380~850	460~850
Start-up Voltage (V)	180	180	180	180
Nominal Input Voltage (V)	620	620	620	620
Max. Input Current per MPPT (A)	12.5	12.5	12.5	12.5
Max. Short Circuit Current per MPPT (A)	15.2	15.2	15.2	15.2
Max. Backfeed Current to The Array (A)	0	0	0	0
Number of MPP Trackers	2	2	2	2
Number of Strings per MPPT	1	1	1	1
<b>AC Output Data (On-grid)</b>				
Nominal Output Power (W)	5,000	6,500	8,000	10,000
Max. Output Power (W) <sup>*4</sup>	5,500	7,150	8,800	11,000
Nominal Apparent Power Output to Utility Grid (VA)	5,000	6,500	8,000	10,000
Max. Apparent Power Output to Utility Grid (VA) <sup>*2*4</sup>	5,500	7,150	8,800	11,000
Nominal Apparent Power from Utility Grid (VA)	10,000	13,000	15,000	15,000

Technical Parameters	GW5K-ET	GW6.5K-ET	GW8K-ET	GW10K-ET
Max. Apparent Power from Utility Grid (VA)	10,000	13,000	15,000	15,000
Nominal Output Voltage (V)	400/380, 3L/N/PE	400/380, 3L/N/PE	400/380, 3L/N/PE	400/380, 3L/N/PE
Output Voltage Range (V)	0~300	0~300	0~300	0~300
Nominal AC Grid Frequency (Hz)	50/60	50/60	50/60	50/60
AC Grid Frequency Range (Hz)	45~65	45~65	45~65	45~65
Max. AC Current Output to Utility Grid (A)	8.5	10.8	13.5	16.5
Max. AC Current From Utility Grid (A)	15.2	19.7	22.7	22.7
Max. Output Fault Current (Peak and Duration) (A)	45@2μs	45@2μs	45@2μs	45@2μs
Inrush Current (Peak and Duration) (A)	45@2μs	45@2μs	45@2μs	45@2μs
Nominal Output Current (A)	7.5	9.5	12.0	14.5
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)			
Max. Total Harmonic Distortion	<3%	<3%	<3%	<3%
Maximum Output Overcurrent Protection (A)	45	45	45	45
<b>AC Output Data (Back-up)</b>				
Back-up Nominal Apparent Power (VA)	5,000	6,500	8,000	10,000
Max. Output Apparent Power without Grid (VA) <sup>*3</sup>	5,000 (10,000 @60sec)	6,500 (13,000 @60sec)	8,000 (16,000 @60sec)	10,000 (16,500 @60sec)
Max. Output Apparent Power with Grid (VA) <sup>*3</sup>	5,000	6,500	8,000	10,000
Nominal Output Current (A)	7.5	9.5	12	14.5
Max. Output Current (A)	8.5	10.8	13.5	16.5
Max. Output Fault Current (Peak and Duration) (A)	45@2μs	45@2μs	45@2μs	45@2μs
Inrush Current (Peak and Duration) (A)	45@2μs	45@2μs	45@2μs	45@2μs
Maximum Output Overcurrent Protection (A)	45	45	45	45
Nominal Output Voltage (V)	400/380	400/380	400/380	400/380
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60

Technical Parameters	GW5K-ET	GW6.5K-ET	GW8K-ET	GW10K-ET
Output THDv (@Linear Load)	<3%	<3%	<3%	<3%
Switching from Grid Connected Mode to Standalone Mode	<10ms	<10ms	<10ms	<10ms
Switching from standalone mode to network connected mode	<10ms	<10ms	<10ms	<10ms
Efficiency				
Max. Efficiency	98.0%	98.0%	98.2%	98.2%
European Efficiency	97.2%	97.2%	97.5%	97.5%
Max. Battery to AC Efficiency	97.5%	97.5%	97.5%	97.5%
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%
Protection				
PV Insulation Resistance Detection	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring	Integrated	Integrated	Integrated	Integrated
PV Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated
AC Overcurrent Protection	Integrated	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated	Integrated	Integrated
DC Switch	Integrated	Integrated	Integrated	Integrated
DC Surge Protection	Type II	Type II	Type II	Type II
AC Surge Protection	Type III	Type III	Type III	Type III
Remote Shutdown	Integrated	Integrated	Integrated	Integrated
General Data				
Operating Temperature Range (°C)	-35~+60	-35~+60	-35~+60	-35~+60
Derating temperature (°C)	40	40	40	40
Relative Humidity	0~95%	0~95%	0~95%	0~95%
Max. Operating Altitude (m)	4000	4000	4000	4000
Cooling Method	Natural Convection	Natural Convection	Natural Convection	Natural Convection
User Interface	LED, APP	LED, APP	LED, APP	LED, APP
Communication with BMS <sup>*6</sup>	RS485, CAN	RS485, CAN	RS485, CAN	RS485, CAN

Technical Parameters	GW5K-ET	GW6.5K-ET	GW8K-ET	GW10K-ET
Communication with Meter	RS485	RS485	RS485	RS485
Communication with Portal	WiFi	WiFi	WiFi	WiFi
Weight (kg)	24	24	24	24
Dimension (W×H×D mm)	415×516×180			
Noise Emission (dB)	<30	<30	<30	<30
Topology	Non-isolated	Non-isolated	Non-isolated	Non-isolated
Self-consumption at Night (W) <sup>7</sup>	<15	<15	<15	<15
Ingress Protection Rating	IP66	IP66	IP66	IP66
DC Connector	MC4 (4~6mm <sup>2</sup> )	MC4 (4~6mm <sup>2</sup> )	MC4 (4~6mm <sup>2</sup> )	MC4 (4~6mm <sup>2</sup> )
AC Connector	Feed-Through Terminal Blocks UW10			
Environmental Category	4K4H	4K4H	4K4H	4K4H
Pollution Degree	III	III	III	III
Overvoltage Category	DC II / AC III	DC II / AC III	DC II / AC III	DC II / AC III
Storage Temperature (°C)	-40~+85	-40~+85	-40~+85	-40~+85
The Decisive Voltage Class (DVC)	Battery: C PV: C AC: C Com: A			
Mounting Method	Wall Mounted			
Active Anti-islanding Method	AFDPF + AQDPF <sup>5</sup>			
Type of Electrical Supply System	Three phase Grid	Three phase Grid	Three phase Grid	Three phase Grid
Country of Manufacture	China	China	China	China
Certification <sup>8</sup>				
Grid Standards	VDE-AR-N 4105, VDE 0126-1-1, EN 50549-1, G98, G99, G100, CEI 0-21			
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			

Technical Parameters	GW5K-ET	GW6.5K-ET	GW8K-ET	GW10K-ET
<p>*1: For 1000V system, Maximum operating voltage is 950V.</p> <p>*2: According to the local grid regulation.</p> <p>*3: Can be reached only if PV and battery power is enough.</p> <p>*4: *4: For Chile Max. Apparent Power Output to Utility Grid (VA) and Max. Output Power (W) : GW5K(L)-ET is 5000; GW6K(L)-ET is 6000; GW8K(L)-ET is 8000; GW10K(L)-ET is 10000.</p> <p>*5: AFDPF: Active Frequency Drift with Positive Feedback, AQDPF: Active Q Drift with Positive Feedback.</p> <p>*6: CAN communication is configured default. If RS485 communication is used, please replace the corresponding communication line.</p> <p>*7: No Back-up Output.</p> <p>*8: Not all certifications &amp; standards listed, check the official website for details.</p>				