

Product Datasheet

Technical Data	GW15K-ET	GW20K-ET	GW25K-ET	GW29.9K-ET	GW30K-ET
Battery Input Data					
Battery Type	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion
Nominal Battery Voltage (V)	500	500	500	500	500
Battery voltage range (V)	200~800	200~800	200~800	200~800	200~800
Max. Continuous Charging Current (A)	50	50	50×2	50×2	50×2
Max. Continuous Discharging Current (A)	50	50	50×2	50×2	50×2
Max Charge Power (W)	15,000	20,000	12,500×2	15,000×2	15,000×2
Max Discharge Power (W)	15,000	20,000	12,500×2	15,000×2	15,000×2
PV String Input Data					
Max. Input Power (W) ¹	22,500	30,000	37,500	45,000	45,000
Max. Input Voltage (V) ²	1000	1000	1000	1000	1000
MPPT Operating Voltage Range (V)	200~850	200~850	200~850	200~850	200~850
MPPT Voltage Range at Nominal Power (V) ³	400~850	400~850	450~850	450~850	450~850
Start-up Voltage (V)	200	200	200	200	200
Nominal Input Voltage (V)	620	620	620	620	620
Max. Input Current per MPPT (A)	30	30	30	30	30
Max. Short Circuit Current per MPPT (A)	38	38	38	38	38
Number of MPPT	2	2	3	3	3
Number of Strings per MPPT	2/2	2/2	2/2/2	2/2/2	2/2/2
AC Output Data (On-grid)					
Nominal Apparent Power Output to Utility Grid (VA)	15,000	20,000	25,000	29,900	30,000
Max. Apparent Power Output to Utility Grid (VA)	16,500	22,000	27,500	29,900	33,000
Nominal Apparent Power from Utility Grid(VA)	15,000	20,000	25,000	30,000	30,000
Max. Apparent Power from Utility Grid (VA)	22,500	30,000	33,000	33,000	33,000
Nominal Output Voltage (V)	380/400, 3L/N/PE	380/400, 3L/N/PE	380/400, 3L/N/PE	380/400, 3L/N/PE	380/400, 3L/N/PE
Output Voltage Range (V) ⁴	0~300	0~300	0~300	0~300	0~300
Nominal AC Grid Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
AC Grid Frequency Range (Hz)	45~65	45~65	45~65	45~65	45~65
Max. AC Current Output to Utility Grid (A)	25.0	33.3	41.7	49.8	50.0
Max. AC Current From Utility Grid (A)	34.0	45.0	50.0	50.0	50.0
Nominal AC Current From Utility Grid (A)	25.0	33.3	41.7	50.0	50.0

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Max. Output Fault Current (Peak and Duration) (A)	241.5A@126ms	241.5A@126ms	241.5A@126ms	241.5A@126ms	241.5A@126ms
Inrush Current (Peak and Duration) (A)	264A@53us	264A@53us	264A@53us	264A@53us	264A@53us
Nominal Output Current (A) ⁵	22.7	30.3	37.9	45.3	45.5
Power Factor	~1 (Adjustable from 0.8 leading~0.8 lagging)	~1 (Adjustable from 0.8 leading~0.8 lagging)	~1 (Adjustable from 0.8 leading~0.8 lagging)	~1 (Adjustable from 0.8 leading~0.8 lagging)	~1 (Adjustable from 0.8 leading~0.8 lagging)
Max. Total Harmonic Distortion	<3%	<3%	<3%	<3%	<3%
Maximum Output Overcurrent Protection (A)	94	94	94	94	94
AC Output Data (Back-up)					
Back-up Nominal Apparent Power (VA)	15,000	20,000	25,000	29,900	30,000
Max. Output Apparent Power (VA) ⁶	15,000(24,000@3sec)	20,000(32,000@3sec)	25,000(30,000@60sec)	30,000(36,000@60sec)	30,000(36,000@60sec)
Nominal Output Current (A)	22.7	30.3	37.9	45.5	45.5
Max. Output Current (A)	22.7(36@3s)	30.3(48.5@3s)	37.9(45.5@60s)	45.5(54.5@60s)	45.5(54.5@60s)
Max. Output Fault Current (Peak and Duration) (A)	94	94	94	94	94
Inrush Current (Peak and Duration) (A)	264@53us	264@53us	264@53us	264@53us	264@53us
Maximum Output Overcurrent Protection (A)	94	94	94	94	94
Nominal Output Voltage (V)	380/400	380/400	380/400	380/400	380/400
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
Output THDv (@Linear Load)	<3%	<3%	<3%	<3%	<3%
Efficiency					
Max. Efficiency	98.0%	98.0%	98.0%	98.0%	98.0%
European Efficiency	97.5%	97.5%	97.5%	97.5%	97.5%
Max. Battery to AC Efficiency	97.5%	97.5%	97.5%	97.5%	97.5%
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%	99.9%
Protection					
PV String Current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated
PV Insulation Resistance Detection	Integrated	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated
PV Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Battery Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated
AC Overcurrent Protection	Integrated	Integrated	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated
DC Switch ⁷	Integrated	Integrated	Integrated	Integrated	Integrated

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DC Surge Protection	Type II	Type II	Type II	Type II	Type II
AC Surge Protection	Type III	Type III	Type III	Type III	Type III
AFCI	Optional	Optional	Optional	Optional	Optional
Rapid Shutdown	Optional	Optional	Optional	Optional	Optional
Remote Shutdown	Integrated	Integrated	Integrated	Integrated	Integrated
General Data					
Operating Temperature Range (°C)	-35~+60	-35~+60	-35~+60	-35~+60	-35~+60
Relative Humidity	0~95%	0~95%	0~95%	0~95%	0~95%
Max. Operating Altitude (m)	4000	4000	4000	4000	4000
Cooling Method	Smart Fan Cooling	Smart Fan Cooling	Smart Fan Cooling	Smart Fan Cooling	Smart Fan Cooling
Display	LED, WLAN+APP	LED, WLAN+APP	LED, WLAN+APP	LED, WLAN+APP	LED, WLAN+APP
Communication with BMS	RS485 / CAN	RS485 / CAN	RS485 / CAN	RS485 / CAN	RS485 / CAN
Communication with Meter	RS485	RS485	RS485	RS485	RS485
Communication with Portal	WiFi / 4G	WiFi / 4G	WiFi / 4G	WiFi / 4G	WiFi / 4G
Weight (kg)	48	48	54	54	54
Dimension W×H×D (mm)	660×520×220	660×520×220	660×520×220	660×520×220	660×520×220
Noise Emission (dB)	<45	<45	<45	<60	<60
Topology	Non-isolated	Non-isolated	Non-isolated	Non-isolated	Non-isolated
Self-consumption at Night (W) *8	<15	<15	<15	<15	<15
Ingress Protection Rating	IP66	IP66	IP66	IP66	IP66
DC Connector	MC4	MC4	MC4	MC4	MC4
AC Connector	OT	OT	OT	OT	OT
Environmental Category	4K4H	4K4H	4K4H	4K4H	4K4H
Pollution Degree	III	III	III	III	III
Overvoltage Category	DC II / AC III	DC II / AC III	DC II / AC III	DC II / AC III	DC II / AC III
Protective Class	I	I	I	I	I
Storage Temperature (°C)	-45~+85	-45~+85	-45~+85	-45~+85	-45~+85
The Decisive Voltage Class (DVC)	Battery: C PV: C AC: C Com: A	Battery: C PV: C AC: C Com: A	Battery: C PV: C AC: C Com: A	Battery: C PV: C AC: C Com: A	Battery: C PV: C AC: C Com: A
Mounting Method	Wall Mounted	Wall Mounted	Wall Mounted	Wall Mounted	Wall Mounted
Active Anti-islanding Method	AFDPF + AQDPF *9	AFDPF + AQDPF *9	AFDPF + AQDPF *9	AFDPF + AQDPF *9	AFDPF + AQDPF *9
Type of Electrical Supply System	Three phase Grid	Three phase Grid	Three phase Grid	Three phase Grid	Three phase Grid
Country of Manufacture	China	China	China	China	China
Certification *10					
Grid Standards	VDE-AR-N 4105, EN50549-1				
Safety Regulation	IEC62619-1/-2				
EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4				

*1: Max. Input Power, not continuous for 1.5*normal power.

*2: For 1000V system, Maximum operating voltage is 950V.

*3: According to the local grid regulation.

*4: Output Voltage Range: phase voltage.

- *5: This parameter is based on 220V utility grid. About 230V utility grid, the parameter can be calculated by dividing "Nominal Apparent Power Output to Utility Grid" by "230V utility grid".
- *6: Can be reached only if PV and battery power is enough.
- *7: DC Switch: GHX6-55P (for Australia).
- *8: No Back-up Output.
- *9: AFDPF: Active Frequency Drift with Positive Feedback, AQDPF: Active Q Drift with Positive Feedback.
- *10: Not all certifications & standards listed, check the official website for details.