

ET Series

Three Phase Hybrid Inverter (HV Battery)



Technical Data		GW5K-ET	GW6.5K-ET	GW8K-ET	GW10K-ET
Battery Input Data	Battery Type	Li-Ion			
	Battery Voltage Range (V)	180~600			
	Max. Charging Current (A)	25			
	Max. Discharging Current (A)	25			
	Charging Strategy for Li-Ion Battery	Self-adaption to BMS			
PV String Input Data	Max. DC Input Power (W)	6500	8450	9600	13000
	Max. DC Input Voltage (V)*1	1000			
	MPPT Range (V)*2	200~850			
	Start-up Voltage (V)	180			
	Min. Feed-in Voltage (V)	210			
	MPPT Range for Full Load (V)*3	240~850	310-850	380~850	460~850
	Nominal DC Input Voltage (V)*4	620			
	Max. Input Current (A)	12.5/12.5			
	Max. Short Current (A)	15.2/15.2			
	No. of MPP Trackers	2			
No. of Strings per MPP Tracker	1/1				
AC Output Data (On-grid)	Nominal Apparent Power Output to Utility Grid (VA)	5000	6500	8000	10000
	Max. Apparent Power Output to Utility Grid (VA)*5	5500	7150	8800	11000
	Max. Apparent Power from Utility Grid (VA)	10000	13000	15000	15000
	Nominal Output Voltage (V)	400/380, 3L/N/PE			
	Nominal Output Frequency (Hz)	50/60			
	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
	Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)			
AC Output Data (Back-up; Optional)	Output THDi (@Nominal Output)	<3%			
	Max. Output Apparent Power (VA)	5000	6500	8000	10000
	Peak Output Apparent Power (VA)*6	10000, 60sec	13000, 60sec	16000, 60sec	16500, 60sec
	Max. Output Current (A)	8.5	10.8	13.5	16.5
	Nominal Output Voltage (V)	400/380			
	Nominal Output Frequency (Hz)	50/60			
Efficiency	Output THDv (@Linear Load)	<3%			
	Max. Efficiency	98.0%	98.0%	98.2%	98.2%
	Max. Battery to Load Efficiency	97.5%	97.5%	97.5%	97.5%
Protection	European Efficiency	97.2%	97.2%	97.5%	97.5%
	Anti-Islanding Protection	Integrated			
	PV String Input Reverse Polarity Protection	Integrated			
	Insulation Resistor Detection	Integrated			
	Residual Current Monitoring Unit	Integrated			
	Output Over Current Protection	Integrated			
	Output Short Protection	Integrated			
	Battery Input Reverse Polarity Protection	Integrated			
Output Over Voltage Protection	Integrated				
General Data	Operating Temperature Range (°C)	-35~60			
	Relative Humidity	0~95%			
	Operating Altitude (m)	≤4000			
	Cooling	Nature Convection			
	Noise (dB)	<30			
	User Interface	LED & APP			
	Communication with BMS*7	RS485; CAN			
	Communication with Meter	RS485			
	Communication with EMS	RS485 (Insulated)			
	Communication with Portal	Wi-Fi			
	Weight (kg)	24			
	Size (Width*Height*Depth mm)	415*516*180			
	Mounting	Wall Bracket			
	Protection Degree	IP66			
Standby Self-Consumption (W)*8	<15				
Standards*9	Topology	Battery Non-Isolation			
	Grid Regulation	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				

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

For AustraliaL safty, there will be a warning if PV voltage > 600V.

*2: For AustraliaL safty, MPPT range is 200~550V.

*3: For AustraliaL safty, MPPT voltage upper limit is 550V.

*4: For AustraliaL safty, nominal DC input voltage is 450V.

*5: According to the local grid regulation.

*6: Can be reached only if PV and battery power is enough.

*7: CAN communication is configured by default. If 485 communication is used, please replace the corresponding communication line.

*8: No Back-up Output.

*9: Not all certifications & standards listed, check the official website for details.