

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)				
	Output THDi (@Nominal Output)	<3%				
	AC Output Data (Back-up; Optional)	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%	
European Efficiency	Max. Efficiency	97.2%	97.2%	97.5%	97.5%	
	Protection	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	Natural 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					
Topology	Battery Non-Isolation					

*1: For 1000V system, Maximum operating voltage is 950V.
For Australia safety, there will be a warning if PV voltage > 600V.
*2: For Australia safety, MPPT range is 200~550V.
*3: For Australia safety, MPPT voltage upper limit is 550V.
*4: For Australia safety, 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.
*: Please visit GoodWe website for the latest certificates.