

# ET Series

## Three Phase Hybrid Inverter (HV Battery)



Technical Data		GW5k-ET	GW8k-ET	GW10k-ET
<b>Battery Input Data</b>	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		
<b>PV String Input Data</b>	Max. DC Input Power (W)	6500	9600	13000
	Max. DC Input Voltage (V)*	1000		
	MPPT Range (V)	200~850		
	Start-up Voltage (V)	180		
	Nominal DC Input Voltage (V)	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		
<b>AC Output Data (On-grid)</b>	Nominal Apparent Power Output to Utility Grid (VA)	5000	8000	10000
	Max. Apparent Power Output to Utility Grid (VA)**	5500	8800	11000
	Max. Apparent Power from Utility Grid (VA)	10000	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	13.5	16.5
	Max. AC Current From Utility Grid (A)	15.2	22.7	22.7
	Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)		
	Output THDi (@Nominal Output)	<3%		
<b>AC Output Data (Back-up)</b>	Max. Output Apparent Power (VA)	5000	8000	10000
	Peak Output Apparent Power (VA)***	10000, 60sec	16000, 60sec	16500, 60sec
	Max. Output Current (A)	8.5	13.5	16.5
	Nominal Output Voltage (V)	400/380		
	Nominal Output Frequency (Hz)	50/60		
	Output THDv (@Linear Load)	<3%		
<b>Efficiency</b>	Max. Efficiency	98.0%	98.2%	98.2%
	Max. Battery to Load Efficiency	97.5%		
	European Efficiency	97.2%	97.5%	97.5%
<b>Protection</b>	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		
<b>General Data</b>	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	RS485; CAN		
	Communication with Meter	RS485		
	Communication with EMS	RS485 (Insulated)		
	Communication with Portal	Wi-Fi		
	Weight (kg)	24		
	Size (Width*Height*Depth mm)	516*415*180		
	Mounting	Wall Bracket		
	Protection Degree	IP65		
	Standby Self-Consumption (W)****	<15		
Topology	Transformerless			
<b>Standards</b>	Grid Regulation	CEI 0-21; VDE4105-AR-N; VDE0126-1-1; EN50438; G83/2; G100		
	Safety Regulation	IEC62109-1&-2, IEC62040-1		
	EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-4-16, EN61000-4-18, EN61000-4-29		

\*: Maximum operating voltage is 950V.

\*\* : According to local grid regulation.

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

\*\*\*\*: No Back-up output.