

# ET Series

## Three Phase Hybrid Inverter (HV Battery)



Technical Data		GW5KL-ET	GW6KL-ET	GW8KL-ET	GW10KL-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)	6650	8000	10650	13300
	Max. DC Input Voltage (V)* <sup>1</sup>	1000			
	MPPT Range (V)* <sup>2</sup>	200~850			
	Start-up Voltage (V)	180			
	Nominal DC Input Voltage (V)* <sup>3</sup>	620			
	Max. Input Current (A)	12.5/12.5		12.5/22	
	Max. Short Current (A)	15.2/15.2		15.2/27.6	
	No. of MPP Trackers	2			
	No. of Strings per MPP Tracker	1/1		1/2	
<b>AC Output Data (On-grid)</b>	Nominal Apparent Power Output to Utility Grid (VA)	5000	6000	8000	10000
	Max. Apparent Power Output to Utility Grid (VA)* <sup>4</sup>	5500	6600	8800	11000
	Max. Apparent Power from Utility Grid (VA)	10000	12000	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	10.5	13.5	16.5
	Max. AC Current From Utility Grid (A)	15.2	18.2	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; Optional)</b>	Max. Output Apparent Power (VA)	5000	6000	8000	10000
	Peak Output Apparent Power (VA)* <sup>5</sup>	10000, 60sec	12000, 60sec	16000, 60sec	16500, 60SEC
	Max. Output Current (A)	8.5	10.5	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	97.6%			
	Max. Battery to Load Efficiency	97.5%			
	European Efficiency	96.8%			
<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		25	
	Size (Width*Height*Depth mm)	516*415*180			
	Mounting	Wall Bracket			
	Protection Degree	IP66			
	Standby Self Consumption (W)* <sup>6</sup>	<15			
Topology	Transformerless				
<b>Certifications &amp; Standards</b>	Grid Regulation	AS/NZS 4777.2:2015			
	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			

\*<sup>1</sup>: For 1000V system, Maximum operating voltage is 950V. For Australian safety, there will be a warning if PV voltage > 600V.

\*<sup>2</sup>: For Australian safety, MPPT range is 200~550V.

\*<sup>3</sup>: For Australian safety, nominal DC input voltage is 450V.

\*<sup>4</sup>: According to the local grid regulation.

\*<sup>5</sup>: Can be reached only if PV and battery power is enough.

\*<sup>6</sup>: No Back-up Output.