

# BT Series (AC-Coupled)

## Three Phase AC Retrofit Inverter (HV Battery)



Technical Data		GW5K-BT	GW6K-BT	GW8K-BT	GW10K-BT
<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>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) *	5500	6600	8800	11000
	Max. Apparent Power from Utility Grid (VA)	10000	12000	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	10.5	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>UPS Output Data (Back-up)</b>	Max. Output Apparent Power (VA)	5000	6000	8000	10000
	Peak Output Apparent Power (VA) **	10000, 60sec	12000, 60sec	15000, 60sec	15000, 60sec
	Max. Output Current (A)	8.5	10.5	13.5	16.5
	Automatic Switch Time (s)	≤0.01			
	Nominal Output Voltage (V)	400/380			
	Nominal Output Frequency (Hz)	50/60			
	Output THDv (@Linear Load)	<3%			
<b>Efficiency</b>	Max. Battery to Load Efficiency	97.5%			
	Max. Charge Efficiency	97.5%			
<b>Protection</b>	Anti-Islanding 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)	21			
	Size (Width*Height*Depth mm)	516*415*180			
	Mounting	Wall Bracket			
	Protection Degree	IP65			
	Standby Self-Consumption (W) ***	<15			
Topology	Transformerless				
<b>Certifications &amp; Standards</b>	Grid Regulation	CEI 0-21; VDE4105-AR-N; VDE0126-1-1; EN50438; G83/2; G100	AS/NZS 4777.2:2015	CEI 0-21; VDE4105-AR-N; VDE0126-1-1; EN50438; G83/2; G100	AS/NZS 4777.2:2015
	Safety Regulation	IEC/EN62109-1&-2, IEC62040-1			
	EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN 61000-4-16, EN 61000-4-18, EN 61000-4-29			

\*: According to the local grid regulation.

\*\* : Can be reached only if battery capacity is enough, otherwise will shut down.

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