



# 215-233Kwh BESS System

CE MSDS



## Product Highlights

### High Efficiency

- Transformer-less design, higher system efficiency.
- Wide AC Grid voltage range.
- Single battery string. No circular current. Saving battery capacity loss.

### Flexible Application

- Modular Design, flexible configuration, small footprint.
- Power module supports "N+1" redundancy.
- All in One design. Easy Installation & maintenance.

### Safety & Reliability

- Full function of heat management, fault detection and protection.
- Inbuilt BMS, PCS, MPPT and EMS. Multiple levels of software & Hardware protection.
- Two level fire extinguisher system.

### Full Function

- Fast reaction of Active/Reactive power adjustment.
- STS Inbuilt Supporting On grid/ off grid transfer without interrupted.
- Standard with EMS function. Peak saving, virtual enlargement, EPS, New Energy power absorption.

MODEL	TG-HVC768-215L	TG-HVC768-233L
<b>Battery Specification</b>		
Battery type	LFP	LFP
Cell capacity	3.2V/280Ah	3.2V/280Ah
PACK config	1P48S	1P52S
PACK Qty	5	5
Rated energy	215kWh	233kWh
Rated voltage	768V	832V
Voltage range	648 - 876Vdc	702 - 949Vdc
Charge/Discharge rate	0.5C Rated	
Cooling system	liquid cooled	
Rated capacity	280Ah	
<b>AC Specifications</b>		
Rated voltage	400Vac	
Voltage range	300 / 460Vac	
Frequency range	50Hz/60Hz	
Grid system	3P+N+PE	
Rated power	100kW	
Peak power	120kW	
Rated current	145A	
Overload capacity	1.2Pn, lasting for 1 minute	
Power factor	> 0.99	
On grid THDI/THDV(Off grid)	<3%, at rated power/ < 3%, linear load	
<b>System Specification</b>		
Temperature range	-20°C~55°C, > 45°C power derating	
Storage temperature	-20 ~ 55°C	
Noise	<72 dB	
Dimension W*D*H(mm)	1120*1400*2340	
Weight(kg)	2250	2350
IP class	IP54	
Cooling type	liquid cooled	
Communication protocol	Modbus RTU, Modbus TCP	
Communication port	Ethernet/RS485/CAN	
<b>Certificates</b>		
	UN38.3	