

# GSHVI

-P20E51C100/P30E61C100/  
P40E81C200/P50E102C200

## All-in-One High-Voltage ESS



- All new a grade LiFePO4 cells
- 6000 cycle life
- Modular design for up to 4~10 modules per unit
- Hybrid ESS for on and off-grid use
- Built-in WiFi for remote monitoring and services

The All-in-One High-Voltage ESS integrates multiple core components, featuring space-saving design, flexible expansion and effortless operation & maintenance, which significantly cuts down the total life-cycle cost. With high-voltage, low-current architecture, the system delivers superior efficiency and minimal energy loss. It supports millisecond-level on/off-grid switching, ensuring safe and reliable performance across a variety of energy storage applications, including microgrids and off-grid systems.

### ADVANTAGE



**HIGH  
EFFICIENCY**



**SPACE  
SAVING**



**EXPANDABLE  
SYSTEM**



**EASY  
INSTALLATION**



**BLUETOOTH  
& WIFI**

# SPECIFICATION

Electrical				
Cell type	LiFePO4			
Model	GRHVI-P20E51C100	GRHVI-P30E61C100	GRHVI-P40E81C200	GRHVI-P50E102C200
Rated voltage	512V	614.4V	409.6V	768V
Operating voltage	432 ~ 576V	518.4 ~ 691.2V	345.6 ~ 460.8V	648 ~ 864V
Rated capacity	51.2kWh	61.44kWh	81.92kWh	241.15kWh
Maximum number of modules in series	5pcs	6pcs	8pcs	15pcs
Nominal voltage	102.4V		51.2V	
Nominal capacity	100Ah		200Ah	
Maximum charge/discharge current	100A			
Depth of discharge	90%			
Cycle life <sup>[1]</sup>	≥6000 Cycles			
PV input power	32kW	60kW	80kW	96kW
Maximum open-circuit voltage	1000VDC			
MPPT voltage range	200 ~ 850VDC	150 ~ 850VDC		
PV input current	4*20A	3*40A	4*40A	4*40A
AC rated voltage	3/N/PE, 220/380VAC, 230/400VAC			
AC rated frequency	50Hz/60Hz (Automatic detection)			
Maximum AC input current	45.6A	91.2A	121.6A	152A
AC rated output current	20kW	30kW	40kW	50kW
AC output current	30.4A	45.6A	60.8A	76A
Maximum input power of generator	20kW	30kW	40kW	50kW
Maximum input current of generator	30.4A	45.6A	60.8A	76A
Environmental				
Ambient humidity	≤80%RH (No condensation)			
Operating temperature	Charge: 0 ~ 55°C Discharge: -20 ~ 55°C			
Storage temperature	-20 ~ 55°C			
Altitude	≤2000m			
Cooling method	Fan cooling			
Communication				
Display	LCD display/LED indicator light			
Communication	CAN/RS485/Bluetooth/Wi-Fi			
Mechanical				
Dimension	1170*951*1650mm		1170*951*1952mm	
Weight	805kg	944kg	1110kg	1280kg
Protection level	IP54			
Conformance				
Safety regulations	IEC 62619			
EMC	EN IEC 61000-6-1/2/3/4			
Transportation	UN 38.3			

[1] Test conditions: 0.2C charge/discharge, ambient temperature maintained at 25±2°C, 80% DOD



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