

# GRHV

-51100/51200/51314

## High-Voltage Rack-Mounted Battery



- All new a grade LiFePO4 cells
- 6000 cycle life
- Modular design up to 3~12 modules per unit
- Built-in smart battery management system (BMS)
- Support WiFi communication for remote monitoring and services

The GRHV High-Voltage Rack-Mounted Battery utilizes a modular series-connection + rack-mounted lithium battery architecture, combining flexibility, efficiency, safety and stability. Its lightweight design and ease of installation make it an ideal solution for meeting the energy storage needs of residential buildings, villas, hotels, and small-scale commercial establishments.

### ADVANTAGE



**EASY  
INSTALLATION**



**SPACE  
SAVING**



**EXPANDABLE  
SYSTEM**



**CONVENIENT O&M  
AND LOW COST**





**REMOTE MONITORING  
AND WIFI UPGRADE**

## SPECIFICATION

Electrical						
Cell type	LiFePO4					
Model	GRHV-51100			GRHV-51200		
Rated total voltage	307.2V	409.6V	614.4V	307.2V	409.6V	614.4V
Operating voltage	259.2 ~ 345.6V	345.6 ~ 460.8V	518.4 ~ 691.2V	259.2 ~ 345.6V	345.6 ~ 460.8V	518.4 ~ 691.2V
Rated capacity	30.72kWh	40.93kWh	61.44kWh	61.44kWh	81.92kWh	122.88kWh
Maximum number of modules in series	6pcs	8pcs	12pcs	6pcs	8pcs	12pcs
Nominal voltage	51.2V			51.2V		
Nominal capacity	100Ah			200Ah		
Standard charge/discharge current	50A			50A		
Maximum charge/discharge current	100A			100A		
Size	440 (494) *418*150mm			520 (574) *730*145mm		
Weight	45kg			85kg		
Discharge depth	90%					
Cycle life <sup>[1]</sup>	≥6000 Cycles					
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	Natural cooling					
Communication						
Display	LCD display/LED indicator light					
Communication	CAN/RS485/Bluetooth/Wi-Fi					
Mechanical						
Dimension	506*550*1300mm	506*550*1620mm	506*550*2248mm	789*626*1265mm	789*626*1571mm	789*626*2183mm
Weight	55kg	75kg	98kg	74kg	95kg	130kg
Installation method	Rack-mounted					
Protection level	IP20					
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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Version A0 | 2026/01/23