

HV LiFePO₄ Battery System (Rack Type)

- Safe & Reliable
- Longer Life & High efficiency
- Flexible Expansion
- Easy Installation



Safety & Reliable
LiFePO₄ & Smart BMS



Optimal Electricity Cost
Long cycle life and superior performance



Compact Size & East Installation
Module and Rack design for quick installation



Expand capacity flexibly
Parallel to expand capacity easily



High compatibility BMS
Seamless communication with most brands inverters



Wide Applications:
Self-Use, Peak Shaving, UPS, Backup, ESS, HESS,
BESS, Bank, Hospital, School, Hotel, Telecom, Base Station



Specifications(HV Rack Type Battery System)

MODEL	GRB-114.68H	GRB-143.36H	GRB-172.03H
Battery Type	LiFePO4(LFP)		
Battery Module Data			
Nominal Voltage	51.2V		
Nominal Capacity	280AH		
Nominal Energy	14.336KWH		
Dimension	W810*D468*H253mm		
Battery System Data			
Module Quantity&Configuration	8PCS in series	10PCS in series	12PCS in series
Nominal Voltage	409.6V	512V	614.4V
System Energy	114.68KWH	143.36KWH	172.03KWH
System Usable Energy 90% DOD	103.22KWH	129.02KWH	154.82KWH
Operating Voltage Range	358.4-460.8V	448-576V	537.6-691.2V
Charge Current	100A(MAX); 50A(Recommended)		
Discharge Current	100A(MAX); 50A(Recommended)		
Cycle Life	6000Cycles, 25°C		
Monitoring Parameters	SOC, System voltage, current, cell voltage, cell temperature, module temperature		
Communication	CAN/RS485		
IP Rating of Enclosure	IP20		
Operating Temp. Range	Charge: 0~55°C; Discharge: -20~55°C		
Transport or Storage Temperate Range	-20°C-45°C		
Humidity	10% - 95% (No Condensing)		
Altitude	≤2000m		
Design Life	15Years+		