

ENERGY STORAGE BATTERY SERIES

High Voltage (102.4V) Energy Storage Solution



102.4V 157Ah/ 280Ah/ 314Ah LiFePO4 Battery Module

Features



Extraordinary Performance



Superior Safety



Flexible Configuration



All in one design



High Scalability



Easy Set-up
& Maintenance

Models	HVR32-28							
Combination Mode	1P32S157Ah				1P32S300Ah			
Energy Capacity	16.07kWh				28.67kWh/32.15kWh			
Nominal Voltage	102.4V				102.4V			
Nominal Capacity	157Ah				280Ah/314Ah			
Charge Cut-off Voltage	112V				112V			
Discharge Cut-off Voltage	96V				96V			
Charge Current	Standard:50A / Max.:110A / Peak: 120A(3s)				Standard:50A / Max.:110A / Peak: 120A(3s)			
Discharge Current	Standard:50A / Max.:110A / Peak: 120A(3s)				Standard:50A / Max.:110A / Peak: 120A(3s)			
Dimensions (L/D/H)	544* 781* 200(mm)				884* 750* 242(mm)			
Weight	≈125Kg				≈238Kg			
Battery Cell Type	LiFePO4(Lithium Iron Phosphate Battery)							
Round-trip Efficiency	≥90%							
Enclosure Protection Rating	IP20							
Heat Dissipation Method	Air Cooling							
Built-in Module	BMU (Battery Management Unit)							
Application Matching	BCU (Battery Control Unit) / High Voltage Control Box							
Communication Port	(CAN) Multi-stage Cascade Acquisition							
Mounting Method	Rack-mounted / Cabinet-mounted							
Operation Tem.	-10℃ to + 50℃							
Applications	ON Grid / ON Grid + Backup / OFF Grid							
BMS Monitoring Parameters	SOC,System voltage,Current,Cell voltage, Cell temperature							
HVR32-ESSData	1P32S157Ah				1P32S300Ah			
Number of Modules	4	5	6	7	4	5	6	7
Energy Capacity	64kWh	80kWh	96kWh	112kWh	114.6kWh/ 128.6kWh	143.3kWh/ 160.8kWh	172kWh/ 193kWh	200kWh/ 225kWh
Nominal Voltage	409.6V	512V	614.4V	716.8V	409.6V	512V	614.4V	716.8V
Charge Cut-off Voltage	448V	560V	672V	784V	448V	560V	672V	784V
Discharge Cut-off Voltage	384V	480V	576V	672V	384V	480V	576V	672V
Dimensions (L*D*H) mm	595*790 *1264	595*790 *1467	595*790 *1670	595*790 *1873	935*820 388/1456	935*820 1644/1712	935*820* 1900/1968	935*820* 2156/2224
Weight	≈600Kg	≈720Kg	≈840Kg	≈960Kg	≈1110Kg	≈1355Kg	≈1600Kg	≈1845Kg
Charge Current	Standard:50A / Max.:110A / Peak: 120A(3s)							
Discharge Current	Standard:50A / Max.:110A / Peak: 120A(3s)							
Max. Overcurrent of Terminal	120A							
Mounting Method	Rack-mounted / Cabinet-mounted							
Enclosure Protection Rating	IP20							
Round-trip Efficiency	≥90%							
Operation Tem.	-10℃ to + 50℃							
Applications	ON Grid / ON Grid + Backup / OFF Grid							
Communication Port	CAN / RS485							
Operation Interface	4.3 Touch HMI Industrial System							
BMS Monitoring Parameters								
Cell Overvoltage Protection、Cell Undervoltage Protection、Total Overvoltage Protection、Total Undervoltage Protection、Charge Overcurrent Protection、Discharge Overcurrent Protection、Charge High Cell Temperature Protection、Discharge High Cell Temperature Protection、Charge Low Cell Temperature Protection、Discharge Low Cell Temperature Protection、High Ambient Temperature Alarm、Low Ambient Temperature Alarm、Terminal Temperature Protection High SOC Protection、Low SOC Protection、Positive Insulation Fault、Negative Insulation Fault、Charge Cell Voltage Difference Protection、Discharge Cell Voltage Difference Protection、Charge Cell Temperature Difference Protection、Discharge Cell Temperature Difference Protection、Cell Temperature Rise Protection、Cell Sampling Abnormality、NTC Sampling Abnormality、Slave Fan Control、Cell Fault、Relay Fault、Balancing Function、Full Charge Judgment、Consumption Current、Severe Undervoltage Protection、Severe Overvoltage Protection								

※ The above are only the parameters of the battery system. You can select the inverter according to your needs.

The inverter can be mounted outside the battery rack and supports customization.