

SHV48100



Safety-Oriented

LFP Chemistry, Grade A Cells & Field-Proven
Modular BMS Built-In



Scalable & Flexible

Increase Capacity on Demand, Ideal for
Residential, Commercial & Industrial Use



High Energy Efficiency

Increased Energy Density and Low Resistive Losses



Powerful

High Power Output, Suitable for Applications that
Require Quick Bursts of Energy



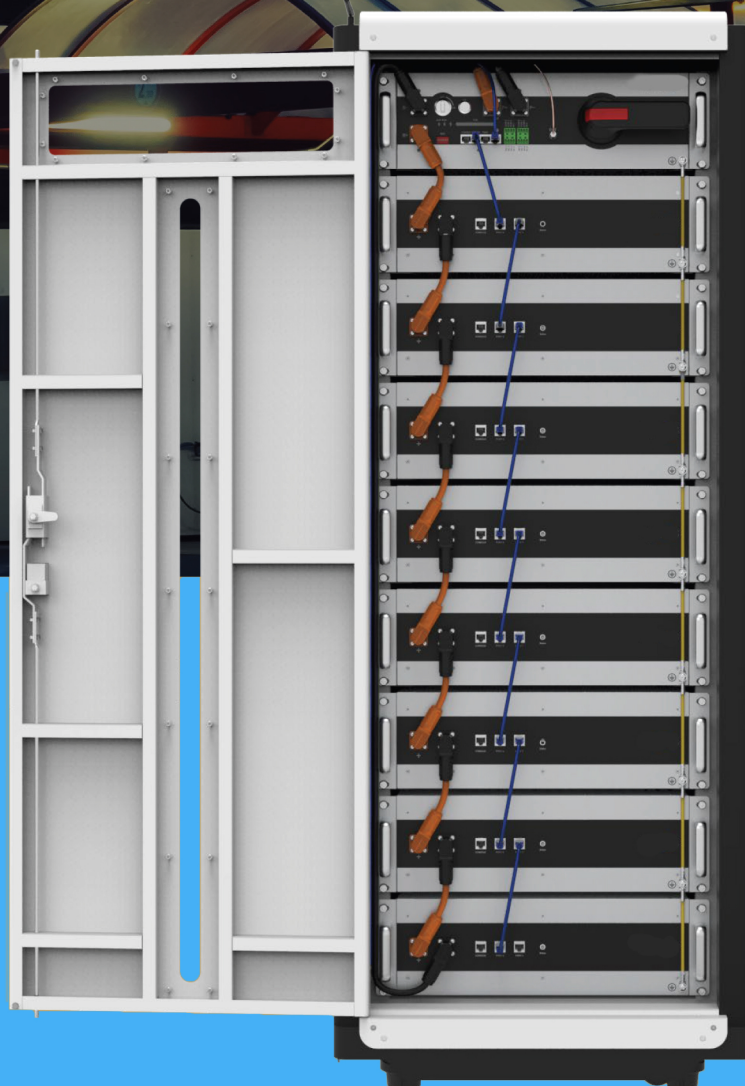
Compatibility

Field Integrated Solutions, Wide Voltage Range
Compatible with Industry Leading Inverters



Smart

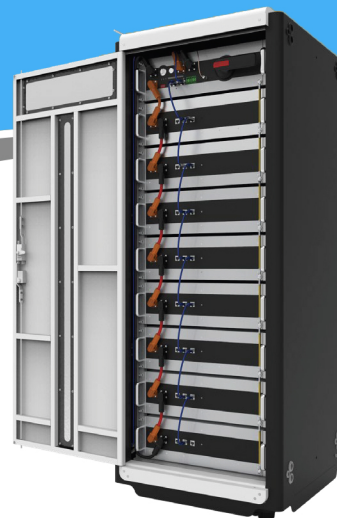
Remote Upgrading & Monitoring



Inverter Compatibility List



SHV48100 Specifications



SHV48100 BCU (Battery Control Unit)

Controller Working Voltage	200V~870V
Self-consumption Power	7.56W
Dimensions (W*D*H)	19.06*20.09*5.51inch/484*510*140mm
Weight	29.32lbs/13.3kg

SHV48100 BMU (Battery Module Unit)

Nominal Voltage	51.2V
Voltage Range	45.5~58V
Nominal Capacity	100Ah
Nominal Energy	5.12kWh
Continuous Discharging/Charging Current	50A _{dc}
Chemistry	LFP
Communication	CAN, RS485
Dimensions (W*D*H)	19.06*20.87*5.51inch/484*530*140mm
Weight	94.8lbs/43kg

SHV48100 System

Nominal System Voltage	256~768V
System Voltage Range	(45.5V~58V)*n
Nominal System Capacity	100Ah
Nominal System Energy	25.6~76.8kWh
Continuous Charge/ Discharge Current	50A _{dc}
BMU Qty. (Variable)	5~15
Communication	CAN, RS485, Dry Contact, WiFi
Recommended Depth of Discharge	80%
Dimensions (W*D*H)	23.62*25.2*61.22inch/600*64*1555mm
Weight (Cabinet+BCU+BMU)	197.5lbs+29.32lbs+94.8lbs*n/ 89.6kg+13.3kg+43kg*n
Operation Humidity	0~95%, No Condensation
Operating Temperature	Charge: 32°F~134.6°F/0°C~57°C Discharge: -0.4°F~134.6°F/-18°C~57°C
Ingress Protection	IP20
Cycle Life	≥ 6000 cycles
Altitude	< 13123.35ft/4000m
Warranty	10 Years

*Note: "n" represent the quantity of BMU, from 5 to 15 pcs.

Certifications

UL 9540 Ed.3 (2023), UL 9540A, UL 1973, CEC, SGIP, CE, IEC