

20kWh~50kWh High/Low Voltage Stackable Battery

Indoor BESS



Certified Global Reliability

CE and UN38.3 certified; 2000m altitude capability, designed for seamless deployment in both residential and light commercial environments



Dual-Voltage Stackable Platform

High-voltage 172.8V~460.8V and low-voltage 51.2V options; 4~10 module stacking delivers 20.48kWh~51.2kWh flexible capacity



Multi-Protocol Communication

CAN/RS485/WiFi/Ethernet interfaces, compatible with major residential inverter ecosystems via standard protocols



Integrated Safety Systems

Built-in BMS with active cell balancing, plus over-current, short-circuit and temperature cut-off protection for electrical safety

Model	HC-UPSSHV20I/ HC-UPSSLV20I	HC-UPSSHV30I/ HC-UPSSLV30I	HC-UPSSHV40I/ HC-UPSSLV40I	HC-UPSSLV50I
Battery				
Cell Type	LiFePO4			
Battery Cell	3.2V/100Ah			
Battery Pack Configuration	1P16S			
Battery Pack Quantity	4 Packs/Cluster	6 Packs/Cluster	8 Packs/Cluster	10 Packs/Cluster
Rated Current	100A/300A			
Voltage Range	172.8~230.4V/51.2V	259.2~345.6V/51.2V	345.6~460.8V/51.2V	51.2V
Rated Capacity	20.48kWh	30.72kWh	40.96kWh	51.2kWh
System				
Weight	221.6kg/212kg	302.6kg/308kg	384.8kg/404kg	500kg
Dimensions (W/D/H)	422*610*951.5mm/ 610*450*763mm	422*610*1281.5mm/ 610*450*1085mm	422*610*1611.5mm/ 610*450*1407mm	610*450*1729mm
Temperature	-20°C ~ 50°C (>45°C De-Rating)			
Humidity	5%~95%RH (Non-Condensation)			
IP Rating	IP20			
Anti-corrosion Rating	C1			
Cooling Method	Fan			
Attitude	2000m			
Communication	CAN / RS485 / WiFi / Ethernet			
Certification	CE,UN38.3			
Charge/Discharge Rate	0.5 CP			
Depth Of Discharge	90%DOD			
Cell Cycle Life	≥6000 Cycles (80%SOH @Standard)			

System Diagram

