

53Ah HV Stackable Residential Energy Storage Matrix

RSESSHV10.85K/16.28K/21.71K/27.14K/32.56K

RSESSLV10K/15K/20K/25K/30K uses advanced Hybrid Electrolyte Solid State LFP, battery capacity of 53Ah, not only has a long life, but also has the dual guarantee of high efficiency and safety. Stacked design, support maximum 6 packs. With a storage capacity of up to 30kWh and a wide system voltage range, which can flexibly adapt to various residential electricity needs.



- 01

High safety

Safe and reliable cutting-edge prismatic Semi Solid State LFP Batteries
- 02

Flexible scalability

Stacked design, support maximum 6 packs
- 03

Easy Installation

Modular design, plug and play
- 04

Ultra-Intelligence

Big data + AI help to predict power charge/discharge
- Application Scenario:

Residential, C&I, Utility, Mobile applications

PRODUCT PARAMETERS

Product Model	RSESS HV10.85K	RSESS HV16.28K	RSESS HV21.71K	RSESS HV27.14K	RSESS HV32.56K
Electrical Parameter					
Battery Chemistry	Hybrid Electrolyte Solid State LFP				
Module Parameter	5.427 kWh				
Battery Capacity	53 Ah				
System Configuration	1P64S	1P96S	1P128S	1P160S	1P192S
Total Energy	10.85 kWh	16.28 kWh	21.71 kWh	27.14 kWh	32.56 kWh
Nominal Voltage	204.8 V	307.2 V	409.6 V	512 V	614.4 V
Voltage Range	179.2~229.1 V	268.8~343.6 V	358.4~458.2 V	448~572.8 V	537.6~687.3 V
Max. Charge/ Discharge current	53A / 53A				
Cycle Life	≥6000 (25°C±2°C, 0.5C / 0.5C, 90% DOD, 70% SOH)				
General Parameter					
Dimension (W*D*H)	600*435*591 mm	600*435*765 mm	600*435*939 mm	600*435*1113 mm	600*435*1287 mm
Weight	≤118 kg	≤163 kg	≤208 kg	≤253 kg	≤298 kg
Installation Method	Outdoor / Indoor; Floor Mounted				
Certification	System: IEC62619; IEC60730-1; EN62477; EN IEC62040-1; CE; UN38.3 Cell: IEC62619; UN38.3; UL1973; UL9540A (Under Certification)				
Environment Parameter					
IP	IP65				
Humidity	0~95% RH (No condensation)				
Environment Temperature	Charge 3~50°C; Discharge -18~53°C				
Storage Temperature	-10°C~35°C				
Altitude	≤2000 m				