

Residential Lithium Batteries

EHV-S 10.2~20.48kWh

EHV-S series are stackable lithium batteries designed entirely for residential. With its timeless design, EHV-S meets IP55 protection degree for outdoor installations, light weight, no pollution and multiple electrical protections through its integrated high voltage control box.



Flexible

- Modular design, stackable installation, easy to install and maintain
- + Can support up to 8 clusters in parallel, scale up to 163.84 kWh.
- + Compatible with SolarAll-H three phase inverters

Smart

- Strong pre-charge and balancing capability
- + Remote data history & firmware upgrading function via T-smart cloud platform

Reliable

- Cobalt free safe LiFePO4 chemistry with more than 6000 cycles.
- + Compliance with CE, IEC62619, UL1973, UN38.3, UL9540A

Technical Specifications

Model	EHV-S20550A	EHV-S30750A	EHV-S41050A
Number of Battery Modules	2	3	4
Nominal Voltage	204.8V	307.2V	409.6V
Nominal Capacity	50Ah	50Ah	50Ah
Nominal Energy	10.24kWh	15.36kWh	20.48kWh
Usable Energy	9.73kWh	14.59kWh	19.46kWh
Operation Voltage Range	185.6V~233.6V	278.4V~350.4V	371.2V~467.2V
Charge Voltage	56.0V		
Float Voltage	54.0V		
Recommend Charge Current	25A		
Max. Continuous Charge Current	50A		
Recommend Discharge Current	25A		
Max. Continuous Discharge Current	50A		
Communication	RS485 / CAN, WiFi		
IP Level	IP55		
Cycle Life	≥6000 Cycles		
Net Weight	≈141 kg (310.8 lbs)	≈199 kg (438.7 lbs)	≈257 kg (566.5 lbs)
Dimension (LxWxH)	630x440x590mm (24.8x17.3x23.2inch)	630x440x745mm (24.8x17.3x29.3inch)	630x440x900mm (24.8x17.3x35.4inch)
Cell Type	Lithium-iron phosphate (LiFePO4)		
Design Life	15 Years		
Operation Temperature	Charge: 0~45°C (32~113°F), Discharge: -20~60°C (-4~140°F)		
Storage Temperature	-10~30°C (14~86°F)		
Relative Humidity	5%~90%, No Condensation		
Install Attitude	4000m		
Install Location	Indoor or Outdoor without Sunlight Exposure		
Installation	Stack Mounted		
Certification	Cell: UL9540A Standard Pack: CE / IEC62619/UL1973/UN38.3		

Highlights



FLEXIBLE



INTELLIGENT



SAFE AND RELIABLE