



The modular HV ESS is specially developed for C&I scenarios. It adopts standardised rack design, with a single module of 5.22kWh, a single cluster of 62.6kWh high-density energy storage units, and support for multiple clusters in parallel to expand to megawatt-level capacity. The system is equipped with intelligent BMS and active safety protection system, realising three-level over-voltage/over-temperature/short-circuit protection to meet the harsh deployment requirements of indoor environments.



**More Than 6000 Cycles,  
EOL > 70%**



**Maximum 1c  
Charge/Discharge**



**30% Space-intensive  
Design**



**IP20 for Indoor  
Installation**

**Battery Pack**

Cell Capacity	3.2V/102Ah
Cell Chemistry	Lithium Iron Phosphate (LiFePO <sub>4</sub> )
Configuration	1P16S
Rated Voltage	51.2V
Rated Current	50A
Rated Energy	5.22kWh
Max. Charge/Discharge Rate	≤1C
Single Pack Weight	52kg ±1%
Cooling Method	Natural Cooling

**Battery Cluster Specifications**

Number of Packs	12
System Rated Voltage	614.4V
Operating Voltage Range	537.6V ~ 691.2V
Recommended Voltage Range	556.8V ~ 672V
System Rated Energy	62.6kWh
Max. Charging Current	100A (25±2°C)
Max. Discharging Current	100A (25±2°C)
Cycle Life	> 6000 cycles (90% DOD @25°C, 0.5C)

**Environmental & Safety**

Operating Temperature	-20°C~55°C
Storage Temperature	-20°C~45°C
Operating Humidity	15%~90% RH (Non-condensing)
Altitude	≤2000m
Installation Environment	Indoor
Fire Protection (Pack)	Optional
Communication Protocol	CAN/ModBus
Ingress Protection (IP)	IP20

**Physical Specifications**

Dimensions (W x D x H)	500 x 566 x 2139 mm (±5mm)
Weight	750 kg ±5%
Warranty	10 years
Battery Life	≥15 years