



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 62kWh 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**

Model	ESS-BATT R60
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Battery Pack

Cell Capacity	3.2V/102Ah
Cell Chemistry	Lithium Iron Phosphate (LiFePO4)
Configuration	1P16S
Rated Voltage	51.2V
Rated Current	50A
Rated Energy	5.22kWh
Max. Charge/Discharge Rate	≤1C
Single Pack Weight	42kg ±1%
Cooling Method	Natural Cooling

Battery Cluster Specifications

Battery Model	R26	R41	R52	R60
Number of Packs	5	8	10	12
System Rated Voltage	256V	409.6V	512V	614.4V
Operating Voltage Range	224.0V ~ 288.0V	358.4V ~ 460.8V	448.0V ~ 576.0V	537.6V ~ 691.2V
System Rated Energy	26.1kWh	41.8kWh	52.2kWh	62.7kWh
Max. Charging Current	100A (25±2℃)			
Max. Discharging Current	100A (25±2℃)			
Cycle Life	> 6000 cycles (80% DOD @25℃, 0.5C)			

Environmental & Safety

Operating Temperature	-20℃~55℃
Storage Temperature	0℃~35℃
Operating Humidity	10%~90% RH (Non Condensation)
Altitude	≤3000m
Installation Environment	Indoor
Fire Protection (Pack)	Optional
Communication Protocol	CAN/ModBus
Ingress Protection (IP)	IP20

Physical Specifications

Dimensions (W*D*H,mm)	500 x 566 x 2139 (±5)
Weight	590 kg ±3%
Warranty	10 years
Battery Life	≥15 years