

ESS-BATT RE Series

High Voltage ESS Solutions From kWh To MWh



The modular HV ESS is specially developed for C&I scenarios. It adopts standardised rack design, with a single module of 9.75kWh, a single cluster of 107kWh 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
Discharge**



**30% Space-intensive
Design**



**IP20 for Indoor
Installation**

Model	ESS-BATT RE Series
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Battery Pack

Cell Capacity	3.2V/127Ah
Cell Chemistry	Lithium Iron Phosphate (LiFePO4)
Configuration	1P24S
Rated Voltage	76.8V
Rated Current	42.4A
Rated Energy	9.75kWh
Cooling Method	Natural Cooling
Dimension (W*D*H,mm)	740*645*135(±5)
Weight	70kg±3%

Battery Cluster Specifications

Battery Model	RE5	RE7	RE9	RE11
Number of Packs	5	7	9	11
System Rated Voltage	384V	537.6V	691.2V	844.8V
Operating Voltage Range	336.0V ~ 420.0V	470.4V ~ 588.0V	604.8V ~ 756.0V	739.2V ~ 924.0V
System Rated Energy	48.8kWh	68.3kWh	87.8kWh	107.3kWh
Rated Charge/Discharge Current	42.4A			
Cycle Life	Fast Charge Cycles >6000 (80% Depth of Discharge @25° C)			

General parameters

Operating Temperature	-20°C~55°C			
Storage Temperature	0°C~35°C			
Operating Humidity	10%–90% RH (Non-condensing)			
Altitude	≤3000m			
Installation Environment	Indoor			
Fire Protection (Pack)	Optional			
Communication Protocol	CAN/ModBus			
Ingress Protection (IP)	IP20			
Dimension (W*D*H,mm)	764*740*1140(±5)	764*740*1440(±5)	764*740*1740(±5)	764*740*2040(±5)
Weight	450Kg±3%	590Kg±3%	730Kg±3%	870Kg±3%

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Configuration	1P24S
Rated Voltage	76.8V
Rated Current	42.4A
Rated Energy	9.75kWh
Cooling Method	Natural Cooling
Dimension (W*D*H,mm)	740*645*135(±5)
Weight	70kg±3%

Battery Cluster Specifications

Battery Model	RE6	RE8	RE10	RE12
Number of Packs	6	8	10	12
System Rated Voltage	460.8V	614.4V	768V	921.6V
Operating Voltage Range	403.2V ~ 504V	537.6V ~ 672V	672V ~ 840V	806.4V ~ 1008V
System Rated Energy	58.5kWh	78kWh	97.5kWh	117kWh
Rated Charge/Discharge Current	42.4A			
Cycle Life	Fast Charge Cycles >6000 (80% Depth of Discharge @25° C)			

General parameters

Operating Temperature	-20℃~55℃			
Storage Temperature	0℃~35℃			
Operating Humidity	10%–90% RH (Non-condensing)			
Altitude	≤3000m			
Installation Environment	Indoor			
Fire Protection (Pack)	Optional			
Communication Protocol	CAN/ModBus			
Ingress Protection (IP)	IP20			
Dimension (W*D*H,mm)	764*740*1290(±5)	764*740*1590(±5)	764*740*1890(±5)	1528*740*1290(±5)
Weight	520Kg±3%	660Kg±3%	800Kg±3%	1040Kg±3%