

Xtreme HV 1.0

Modular HV Battery System

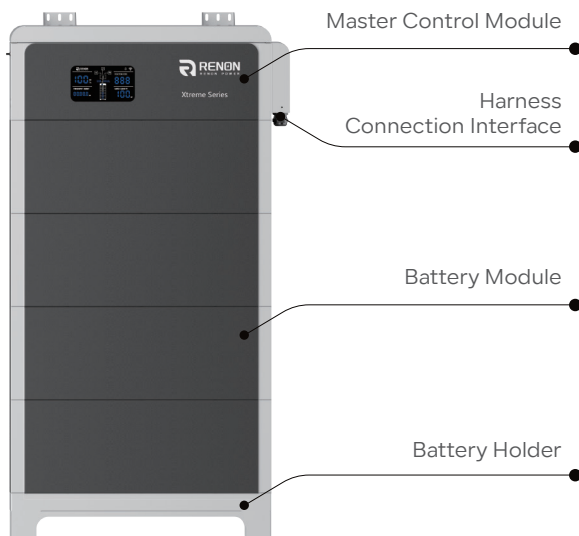
High Efficiency and Scalability: The high voltage system offers a nominal voltage of 192–384V, reducing transmission losses, and its modular design provides 2 to 4 module stacking solutions, ensuring high operational reliability with dynamic current equalizing techniques.

Advanced Smart Management: Wireless design with WiFi connectivity, and the intelligent energy management system (EMS) allow for easy activation, unified management, real-time monitoring, and fault pre-warning.

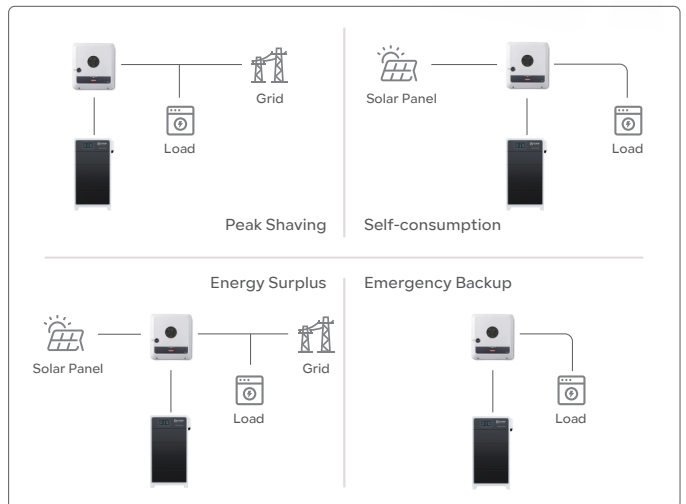
Superior Safety and Durability: With a built-in battery optimizer, up to 8000 cycle life, IP55 protection rating, and comprehensive certifications, the system ensures long-term stable operation and global safety compliance.



Product Details



System Layout



Application Scenario



Battery Energy Storage			
Product Model	R-XH009021	R-XH014031	R-XH019041
Product Module QTY	2	3	4
Battery Chemistry	LiFePO4		
Battery Combination	1P60S	1P90S	1P120S
Cell Capacity (Ah)	50		
Nominal Energy (kWh)	9.6	14.4	19.2
Max.Charging/Discharging Current(A)	48		
Input Voltage Range (V)	162~219	243~328.5	324~438
Nominal Voltage (V)	192	288	384
Max. Charging Voltage (V)	219	328.5	438
Recommend Discharge Cut-off Voltage	175.8	263.7	351.6
Dimensions - W*D (mm/in)	775*270/30.5*10.6	775*270/30.5*10.6	775*270/30.5*10.6
Dimensions - H (mm/in)	854/33.6	1112/43.8	1370/53.9
Total Weight - (kg/lb)	148/326	208/459	268/590

General Parameters	
Scalability	Max. 4 cluster in parallel
Storage Conditions	-4°F ~ 131°F(32°F ~ 95°F Recommended) Up to 90%RH, non-condensing Initial SoC: 50%
Operating Temperature	Charge: 32°F ~ 122°F Discharge: -4°F ~ 122°F
Cooling	Natural Cooling
Max. Altitude	4000m / 13123ft
Cycle Life	8000 Cycles
Communication	RS485, CAN, WiFi

System Characteristic	
Master Control Model	R-MC050-XTH01
Battery Model	R-EM096050-XTH01
Battery Compliances	IEC62619, MSDS, UN38.3 UL 1973, UL 9540, UL 9540A(Coming soon)
Installation Method	Stack Mounting
Installation Scene	Indoor or Outdoor
IP Rating	IP55
Warranty [1]	10 Years

[1] Please refer to the warranty letter for details

■ Packaging & Shipping Details

