

# Xtreme HV 1.0

## Modular HV Battery System

**High Efficiency and Scalability:** The high voltage system offers a nominal voltage of 204.8–614.4V, reducing transmission losses, and its modular design provides 2 to 6 module stacking solutions, ensuring high operational reliability with dynamic current equalizing techniques.

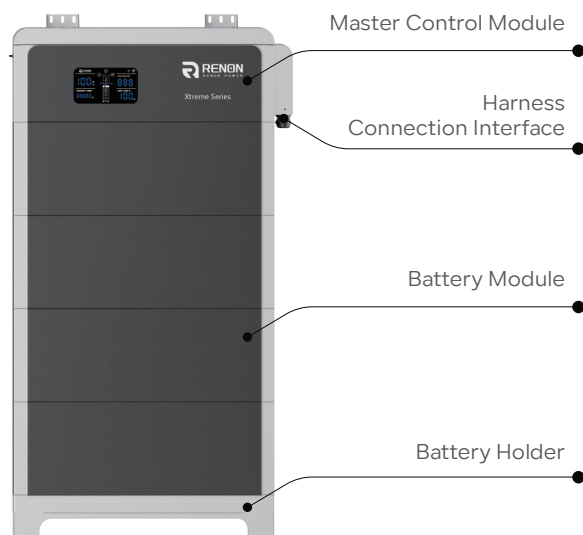
**Advanced Smart Management:** Wireless design with Wi-Fi connectivity, and the intelligent energy management system (EMS) allow for easy activation, unified management, and real-time monitoring and fault pre-warning.

**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.

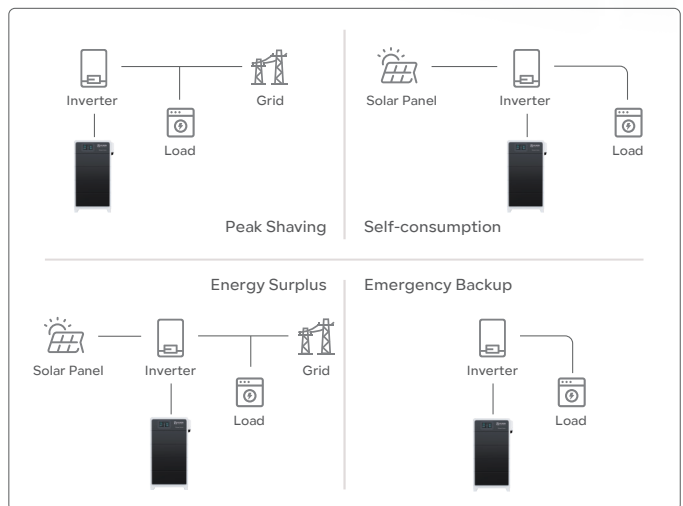
**User-Friendly Integrated Solutions:** The integration with Renon Flex Inverter eliminates the need for additional third-party inverters, and the 10-year warranty enhances user confidence and satisfaction.



### Product Details



### System Layout



### Application Scenario



Battery Energy Storage					
Product Model	R-XH009021	R-XH014031	R-XH019041	R-XH024051	R-XH028061
Product Module QTY	2	3	4	5	6
Battery Chemistry	LiFePO4				
Battery Combination	1P60S	1P90S	1P120S	1P120S	1P150S
Cell Capacity (Ah)	50				
Nominal Energy (kWh)	9.6	14.4	19.2	24	28.8
Nominal Power (kW)	9.216	13.824	18.432	230.4	27.648
Nominal Voltage (V)	192	288	384	480	576
Max. Charging Voltage (A)	219	328.2	438	547.5	657
Recommend Discharge Cut-off Voltage	175.8	263.7	351.6	439.5	527.4
Dimensions - W*D (mm/in)	775*270/30.5*10.6	775*270/30.5*10.6	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	1628/64	1886/74.1
Total Weight - (kg/lb)	152/335	212/467	272/599	332/731	392/863

General Parameters	
Scalability	Max. 5 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-EM102050-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

