Xtreme LV

Modular LV Battery System

Scalability:
The system can be expanded with up to 15 systems in stacks, offering flexibility and future-proofing for growing energy needs.

High Efficiency:
Designed for peak shaving and self-consumption, it helps reduce energy bills by optimizing the use of solar power and minimizing reliance on the grid.

Strong Compatibility:
The system is designed to work seamlessly with various inverters and energy management systems, providing flexibility in integration with existing setups.

Comprehensive Warranty:
Backed by a 70-year warranty, the Xtreme LV system assures long-term peace of mind and protection for the investment.
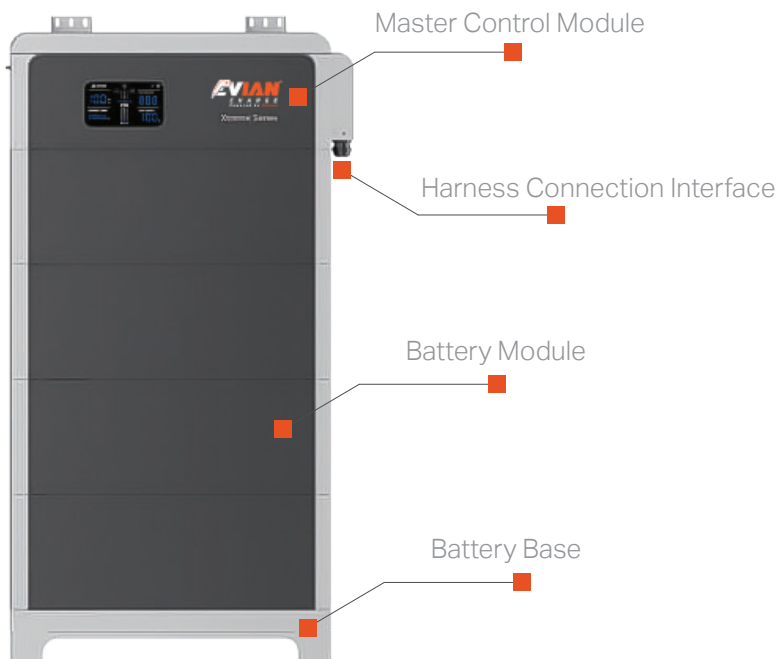
Wi-Fi Connectivity and APP Control:
Enables remote monitoring and management of the energy storage system through a dedicated mobile application, enhancing user convenience and control. for convenience and control.
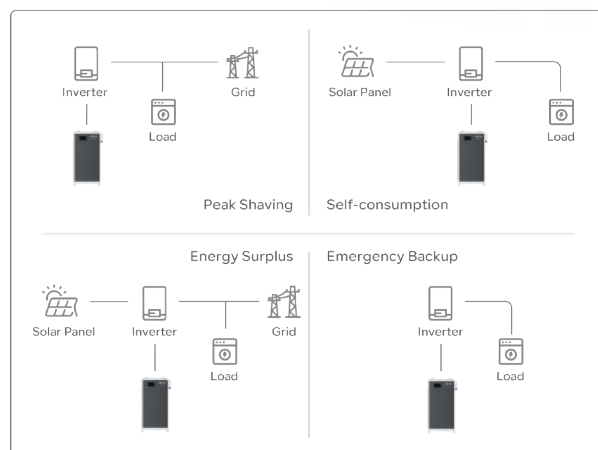
POWERED BY RENON — RENON POWER

10-YEAR WARRANTY

■ Product Details

Master Control Module

Harness Connection Interface

Battery Module

Battery Base

■ System Layout

Inverter — Grid — Load — Peak Shaving

Solar Panel — Inverter — Load — Self-consumption

Solar Panel — Inverter — Grid — Load — Energy Surplus

Inverter — Load — Emergency Backup

Dependable Safety
Rigorous safety protocols for enhanced protection.

High Power Output
Delivers superior output even under limited input conditions.

Flexible Extension
Supports energy storage module expansion for increased capacity.

Smart Management
Integrated system with real-time monitoring and automatic scheduling.

Robust Design
Engineered for high stability, minimal noise, and easy operation.

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Battery Energy Storage				
Product Model	R-XL070021	R-XL075031	R-XL020041	R-XL025051
Product Module QTY	2	3	4	5
Nominal Energy (kWh)	10.24	15.36	20.48	25.6
Output Power (kW)	9.7	14.6	15.4	15.4
Max. Operation Current (A)	190	285	300	300
Peak for l0s (A)	196	297	392	490
Peak for 2s (A)	240	360	480	500
Max. Charging Voltage (Vdc)				58.4
Discharge Cut-off (Vdc)				43.2
Nominal Voltage (Vdc)				51.2
Recommend Charging Voltage (Vdc)				56.8
Battery Chemistry				LiFePO4
Dimension - W*D (mm/in)				635*268/25*10.6
Dimension - H (mm/in)	795/37.3	1023/40.3	1250/49.2	1478/58.2
Net Weight (kg/lb)	-147/-311	-194/-428	-247/-545	-300/-661

Battery Energy Storage			
Product Model	R-XL030061	R-XL035071	R-XL040081
Product Module QTY	6	7	8
Nominal Energy (kWh)	30.72	35.84	40.96
Output Power (kW)	15.4	15.4	15.4
Max. Operation Current (A)	300	300	300
Peak for l0s (A)	500	500	500
Peak for 2s (A)	500	500	500
Max. Charging Voltage (Vdc)			
Discharge Cut-off (Vdc)			
Nominal Voltage (Vdc)			
Recommend Charging Voltage (Vdc)			
Battery Chemistry			
Dimension - W*D (mm/in)			
Dimension - H (mm/in)	1706/67.l	1934/76	2162/85
Net Weight (kg/lb)	-353/-778	-406/-895	-459/-1012

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General Parameters

Scalability	Max. 15 systems in parallel
Storage Conditions	-4F - 137°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 - 722°F
Cooling	Natural Cooling
Max. Altitude	4000m / 73723ft
Cycle Life	8000 Cycles
Communication	RS485, CAN, WiFi

System Characteristic

Master Control Model	R-MC300-XTLOI
Battery Model	R-EM51100-XTL01
Battery Compliances	UL1973,UL9540, UL9540A UKCA, IEC 62619, IEC62040 CEI 0-21, UN 38.3, EN-61000, EN-62311
Installation Method	Stack Mounting
Installation Scene	Indoor or Outdoor
IP Rating	IP65
Warranty [1]	10 Years

[I] Please refer to the warranty letter for details