

# Xtreme LV

## Modular LV Battery System

**Scalability:** The system can be expanded with up to 30 systems in parallel, 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 10-year warranty, the Xtreme LV system assures long-term peace of mind and protection for the investment.

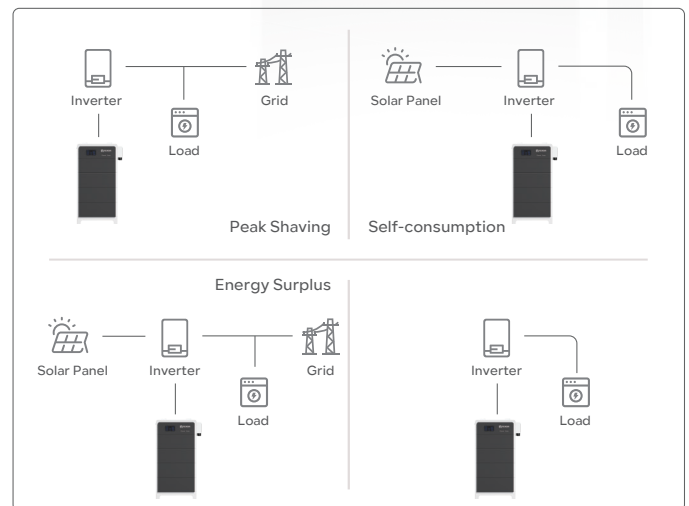
**Wi-Fi Connectivity and APP Control:** Enables remote monitoring and management of the energy storage system through a dedicated mobile application, enhancing user convenience and control.



### Product Details



### System Layout



### Application Scenario



Battery Energy Storage(48/51.2V)	2 Modules	3 Modules	4 Modules	5 Modules	6 Modules
Product Model (48V)	R-XL009021	R-XL014031	R-XL019021	R-XL024021	R-XL028021
Product Model (51.2V)	R-XL010021	R-XL015031	R-XL020041	R-XL025051	R-XL030061
Nominal Energy (kWh)	9.6/10.24	14.4/15.36	19.2/20.48	24/25.6	28.8/30.72
Output Power (kW)	9.1/9.7	13.7/14.6	14.4/15.4	14.4/15.4	14.4/15.4
Max. Operation Current (A)	190	285	300	300	300
Peak for 10s (A)	196	297	392	490	500
Peak for 2s (A)	240	360	480	500	500
Max. Charging Voltage (Vdc)	54.75/58.4				
Discharge Cut-off (Vdc)	40.5/43.2				
Nominal Voltage (Vdc)	48/51.2				
Recommend Charging Voltage(Vdc)	53.25/56.8				
Battery Chemistry	LiFePO4				
Dimension (W*D*H)	635*268*795mm 25*10.6*31.3in	635*268*1023mm 25*10.6*40.3in	635*268*1250mm 25*10.6*49.2in	635*268*1478mm 25*10.6*58.2in	635*268*1705mm 25*10.6*67.1in
Net Weight (Approximate)	139/141kg 306/311lb	192/194kg 423/428lb	245/247kg 540/545lb	298/300kg 656/661lb	351/353kg 773/778lb

General Parameters	
Scalability	Max. 15 systems in parallel
Storage Conditions	-20°C ~ 55°C(0°C ~ 35°C Recommended) Up to 90%RH, non-condensing Initial SoC: 50%
Operating Temperature	Charge: 0°C ~ 50°C Discharge: -20°C ~ 50°C
Cooling	Natural Cooling
Max. Altitude	4000m / 13123ft
Cycle Life	8000 Cycles
Communication	RS485, CAN, WiFi

System Characteristic	
Master Control Model	R-MC300-XTL01
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 [1]	IP65
Warranty [2]	10 Years

[1] IP65 rating applies only when the Xtreme LV system is fully assembled

[2] Please refer to the warranty letter for details

## Packaging & Shipping Details

