

# 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.

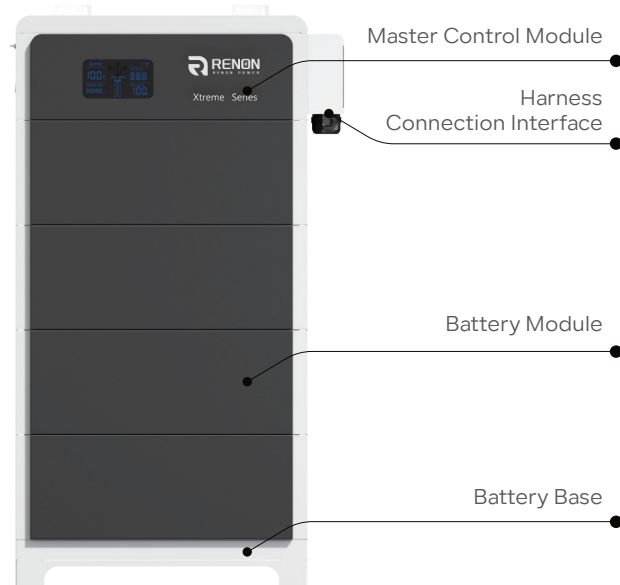
**Strong Compatibility:** The system is designed to work seamlessly with various inverters and energy management systems, providing flexibility in integration with existing setups.

**Comprehensive Warranty:** Backed by a 10-year warranty, the Xtreme LV system assures long-term peace of mind and protection for the investment.

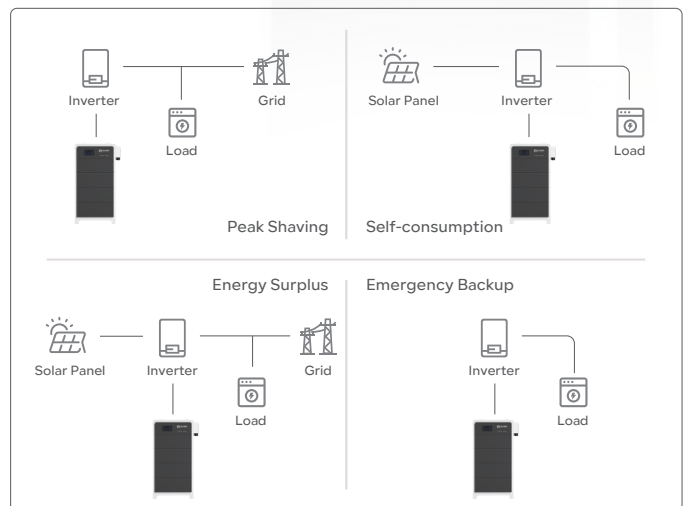
**WiFi Connectivity and App Control:** Enables remote monitoring and management of the energy storage system through a dedicated mobile application, enhancing user convenience and control.



### System Demonstration



### System Layout



### Application Scenario



| Battery Energy Storage           |                 |            |            |            |            |            |            |
|----------------------------------|-----------------|------------|------------|------------|------------|------------|------------|
| Product Model                    | R-XL010021      | R-XL015031 | R-XL020041 | R-XL025051 | R-XL030061 | R-XL035071 | R-XL040081 |
| Product Module QTY               | 2               | 3          | 4          | 5          | 6          | 7          | 8          |
| Nominal Energy (kWh)             | 10.24           | 15.36      | 20.48      | 25.6       | 30.72      | 35.84      | 40.96      |
| Output Power (kW)                | 9.7             | 14.6       | 15.4       | 15.4       | 15.4       | 15.4       | 15.4       |
| Max. Operation Current (A)       | 190             | 285        | 300        | 300        | 300        | 300        | 300        |
| Peak for 10s (A)                 | 196             | 297        | 392        | 490        | 500        | 500        | 500        |
| Peak for 2s (A)                  | 240             | 360        | 480        | 500        | 500        | 500        | 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)            | 795/31.3        | 1023/40.3  | 1250/49.2  | 1478/58.2  | 1706/67.1  | 1934/76    | 2162/85    |
| Net Weight (kg/lb)               | ~141/~311       | ~194/~428  | ~247/~545  | ~300/~661  | ~353/~778  | ~406/~895  | ~459/~1012 |

| General Parameters    |   |
|-----------------------|---|
| Scalability           | Max. 15 systems in parallel   |
| Storage Conditions    | -4°F ~ 131°F (32°F ~ 95°F Recommended)<br>Up to 90%RH, non-condensing<br>Initial SoC: 50% |
| Operating Temperature | Charge: 32°F ~ 122°F<br>Discharge: -4°F ~ 122°F   |
| Cooling               | Natural Cooling   |
| Max. Altitude         | 4000m / 13123ft   |
| Cycle Life            | 8000 Cycles   |
| Communication         | RS485, CAN, WiFi  |

| System Characteristic |   |
|-----------------------|---|
| Master Control        | R-MC300-XTL01   |
| Battery Model         | R-EM51100-XTL01   |
| Battery Compliances   | UL1973, UL9540, UL9540A<br>UKCA, IEC 62619, IEC62040<br>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  |

[1] Please refer to the warranty letter for details

## Packaging & Shipping Details

