

LV INTELLIGENT HOUSEHOLD ENERGY STORAGE SYSTEM

RenonXtreme

- Stackable design enables the flexibility of Xtreme battery, which means it can be freely adjusted by different energy usage.
- Efficient and stable battery life, 8000 times of cycle life and over 10 years of designed service life.
- Wi-Fi and Ethernet connectivity facilitate over-the-air updates.



Renon Xtreme Series is a low voltage household battery storage system that stores energy from the generator, grid or photovoltaic. Its stacked installation allows for rapid build to any home, and improved surge power capacity brings whole home backup in a compact system. The intelligent EMS platform enables users to customize system behavior and monitor the system operation.

BESS Specification	2 Modules	3 Modules	4 Modules	5 Modules
Nominal Energy (kWh)	10.24	15.36	20.48	25.6
Max. Charging /DisCharging (A)	200	300	300	300
Nominal Capacity(Ah)	200	300	400	500
Peak for 10s(A)	300	450	500	500
Max. Charging Voltage(V)	58.4			
Discharge Cut-off(V)	43.2			
Nominal Voltage(V)	51.2			
Recommend Charging Voltage(V)	56.8			

General Parameters	2 Modules	3 Modules	4 Modules	5 Modules
Dimension (L*H*W mm)	635*745*268	635*972*268	635*1200*268	635*1478*268
Net Weight (Approximate)	145kg	200kg	255kg	310kg
Level of Protection	IP55			
Cycle Life	8000 times @80%DOD			
Parallel Capacity	Maximum 15units			
Operatong Temperature	Discharge -20°C~50°C, Charge 0°C~50°C			

System Characteristic

Certifications

UL1741, UL9540, UL1642, UN38.3

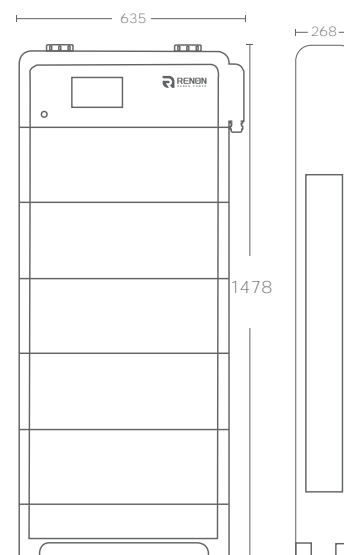
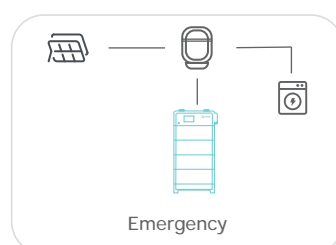
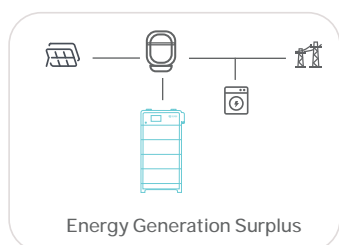
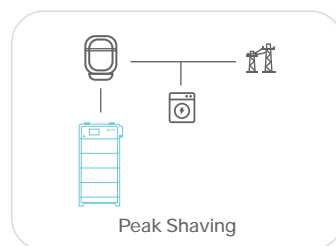
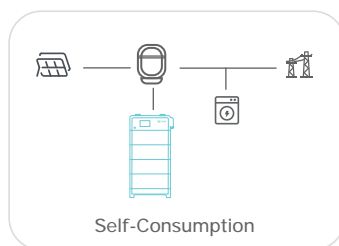
Communication Interface

CAN, Wi-Fi

Warranty

5Years Unconditional + 5Years Conditional

System Layout



HV INTELLIGENT HOUSEHOLD ENERGY STORAGE SYSTEM

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- Efficient and stable battery life, 8000 times of cycle life and over 10 years of designed service life.
- Wi-Fi and Ethernet connectivity facilitate over-the-air updates.



Renon Xtreme Series is a high voltage household battery storage system that stores energy from a generator, grid, or photovoltaic. Its stacked installation allows for rapid build to any home, and improved surge power capacity brings whole home backup in a compact system. The intelligent EMS platform enables users to customize system behavior and monitor the system's operation.

BESS Specification (50Ah)

Battery module Combination	1P14S
Battery module Number	5
Cell Capacity(AH)	50
Nominal Energy (kWh)	11.2
Nominal Voltage (V)	224
Nominal Current (A)	50
Max. Current (A)@10S	100
Operating Voltage Range (V)	205.1~248.5
Cycle Life	8000

General Parameters (50Ah)

Dimensions (W*T*H)	715mm*228mm*990mm
Weight	160kg
Operating Temperature	-20°C to 50°C
Recommended Temperature	0°C to 30°C
Operating Humidity (RH)	Up to 100%, non-condensing
Storage Conditions	-20°C to 30°C Up to 95% RH, non-condensing State of Energy (SoE): 50% initial
Maximum Elevation	3000 m (9843 ft)
Enclosure	IP55
Environment	Indoor and outdoor rated
Noise Level @1m	< 40 db(A) optimal, < 50 db(A) maximum

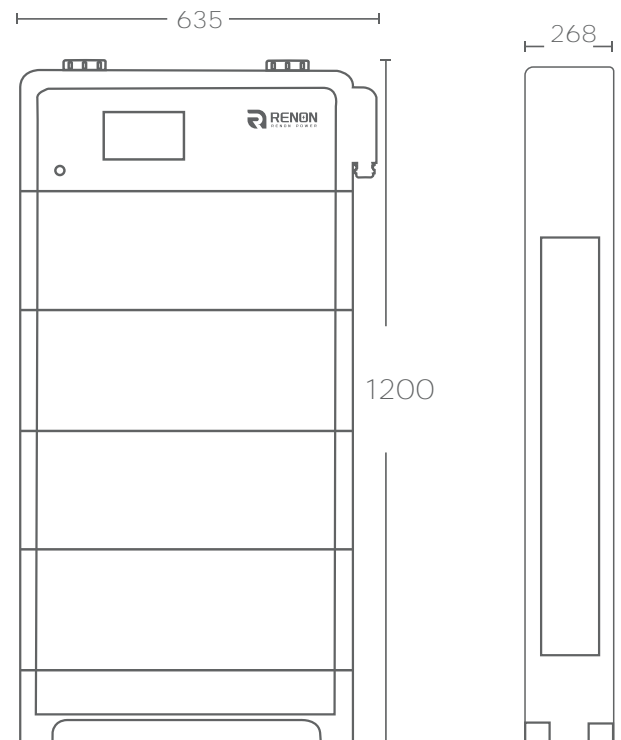
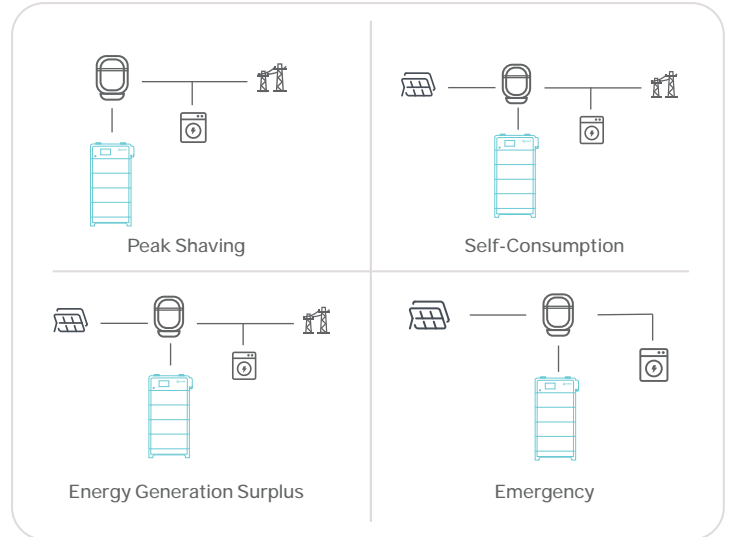
BESS Specification (100Ah)

Battery module Combination	1P16S
Battery module Number	4
Cell Capacity(AH)	100
Nominal Energy (kWh)	20.48
Nominal Voltage (V)	204.8
Nominal Current (A)	100
Max. Current (A)@10S	200
Operating Voltage Range (V)	187.52~227.2
Cycle Life	8000

General Parameters (100Ah)

Dimensions (W*T*H)	635mm*268mm*1200mm
Battery Assembly	238kg
Enclosure	IP55
Operating Temperature	-20°C to 50°C
Recommended Temperature	0°C to 30°C
Storage Conditions	-20°C to 30°C Up to 95% RH, non-condensing State of Energy (SoE): 50% initial
Operating Humidity (RH)	Up to 100%, non-condensing
Maximum Elevation	3000 m (9843 ft)
Environment	Indoor and outdoor rated
Noise Level @1m	< 40 db(A) optimal, < 50 db(A) maximum

System Layout



System Characteristic

BESS Certifications	UL 9540, UL1973, UL 1642, UN 38.3
Communication Interface	CAN, Wi-Fi
Warranty	5Years Unconditional + 5Years Conditional