

HV/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 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 (LV 100Ah)

Battery module Combination	1P16S
Battery module Number	4
Nominal Capacity(Ah)	400
Nominal Energy (kWh)	20.48
Nominal Voltage (V)	51.2
Max. Charging/DisCharging (A)	300
Peak for 10s(A)	500
Max. Charging Voltage(V)	58.4
Discharge Cut-off(V)	43.2
Recommended Charging Voltage(V)	56.8

General Parameters(LV 100Ah)

Dimension (L*H*W mm)	635*1200*268
Net Weight (Approximate)	255kg
Level of Protection	IP65
Cycle Life	8000 times @80%DOD
Parallel Capacity	Maximum 30units
Operating Temperature	Discharge -20°C~50°C Charge 0°C~50°C

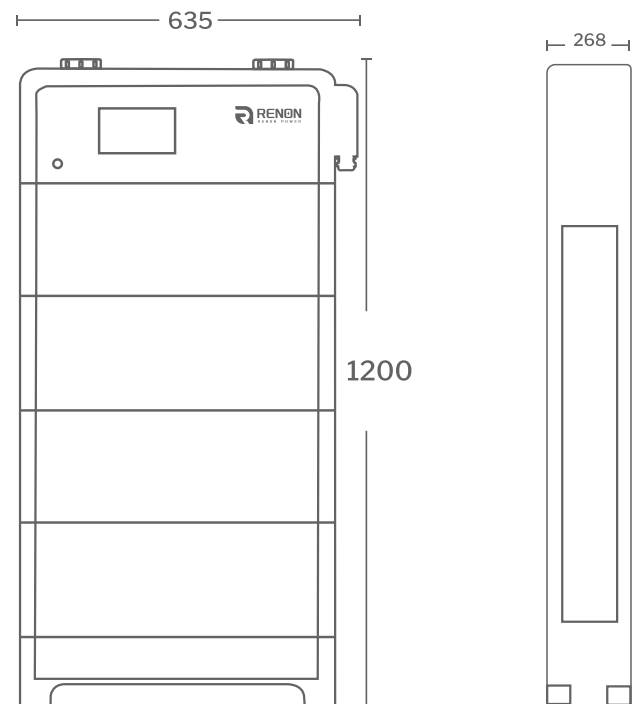
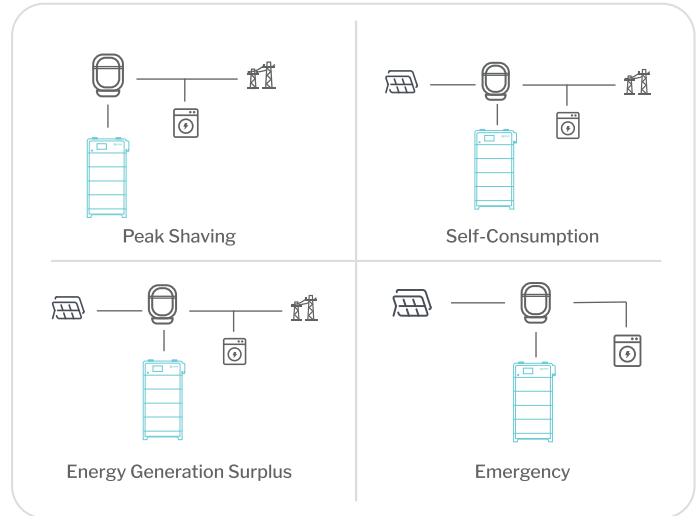
BESS Specification (HV 100Ah)

Battery module Combination	1P16S
Cell Capacity[Ah]	100*N (N=1~6)
Nominal Energy [kWh]	5.12*N (N=1~6)
Default Operating Voltage [Vdc]	380 (Constant voltage)
Max. Operating Current[A]	≤48
Operating Voltage Range (V)	200~500 (Settable)
Cycle Life[times]	8000

General Parameters (HV 100Ah)

Dimensions(mm)	635(W)*268(T)*1200(H)@4 modules
Total Weight(Kg)	246 @4 modules
Enclosure	IP65
Operating Temperature	-20°C to 50°C
Recommended Temperature	0°C to 30°C
Storage Conditions	-20°C to 55°C (-10°C to 40°C Recommended) Up to 90% RH, non-condensing State of Energy (SoE): 50% initial
Operating Humidity (RH)	Up to 95%, non-condensing
Maximum Elevation	3000 m (9843 ft)
Environment	Indoor and outdoor rated
Noise Level @1m	< 40 dB(A) optimal, < 60 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

LV INTELLIGENT HOUSEHOLD ENERGY STORAGE SYSTEM

- Stacked assembly, simple installation, and modular design gives flexibility
- Built-in bidirectional DC-DC converter to help reduce heat generation and meet low power consumption requirements
- High safety, long battery life (up to 8000 cycles)
- Utilize the most advanced dynamic current equalizing technique to ensure the module's high operation reliability and security



RenonXtreme 2.0

Renon Xtreme 2.0 is a new product independently developed by Renon Power integrating cutting-edge technology. Different from the legacy version, Xtreme 2.0 has a built-in bi-directional DC-DC converter, which improve the stability and efficiency of system operation.

Besides, its stacked design enables simple installation and expansion in any home. It supports module selections between 2-6 modules depending on the specific needs. The products adopts a three-level BMS and the self-created EMS platform from Renon that supports remote monitoring, parameter modification, firmware upgrades, and other intelligent functions.

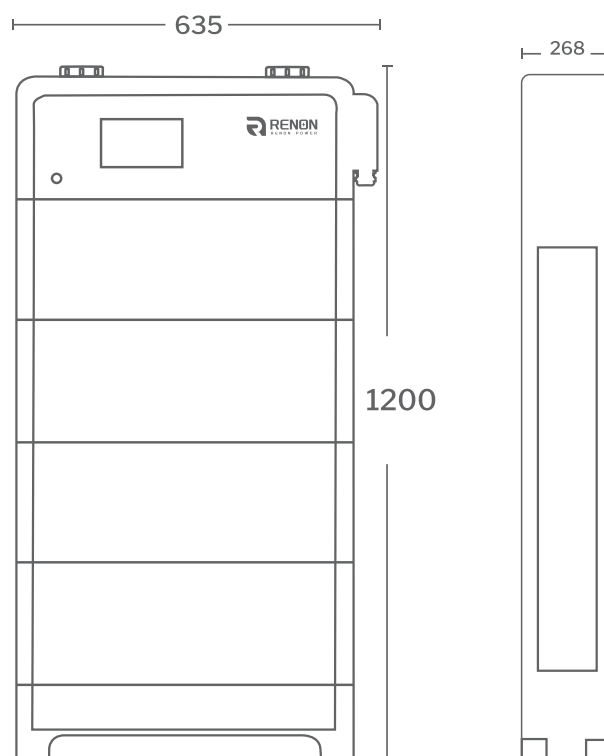
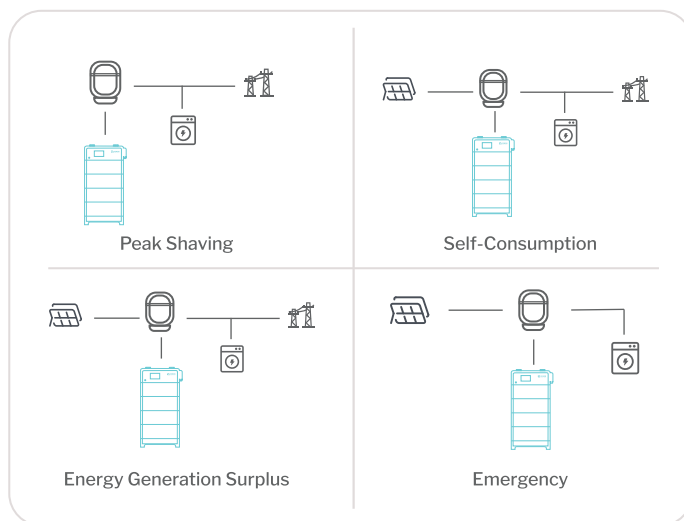
BESS Specification (LV 100Ah)

Battery module Combination	1P16S
Cell Capacity[Ah]	100*N (N=1~6)
Nominal Energy [kWh]	5.12*N (N=1~6)
Max. Operating Current[A]	≤300
Operating Voltage Range[Vdc]	43~57 (Settable)
Default Operating Voltage [Vdc]	54 (Constant voltage)
Cycle Life[times]	8000

General Parameters (LV 100Ah)

Dimensions(mm)	635(W)*268(T)*1200(H) @4 modules
Total Weight(Kg)	246 @4 modules
Enclosure	IP65
Operating Temperature	-20°C to 50°C
Recommended Temperature	0°C to 30°C
Storage Conditions	-20°C to 55°C (-10°C to 40°C Recommended) Up to 90% RH, non-condensing State of Energy (SoE): 50% initial
Operating Humidity (RH)	Up to 95%, non-condensing
Maximum Elevation	3000 m (9843 ft)
Environment	Indoor and outdoor rated
Noise Level @1m	< 40 dB(A) optimal, < 60 dB(A) maximum

System Layout



System Characteristic

BESS Certifications	UL1973,UL9540A,IEC62619,UN 38.3
Communication Interface	CAN, Wi-Fi
Warranty	5Years + 5Years