

# HV/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



## Renon Xtreme 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 (HV 100Ah)

Battery module Combination	1P16S
Cell Capacity[Ah]	100
Nominal Energy [kWh]	20.48 @4 modules
Default Operating Voltage [Vdc]	400
Max. Operating Current[A]	≤16A
Operating Voltage Range (V)	240~420
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	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 95%, non-condensing
Maximum Elevation	3000 m (9843 ft)
Environment	Indoor and outdoor rated
Noise Level @1m	< 40 dB(A) optimal, < 50 dB(A) maximum

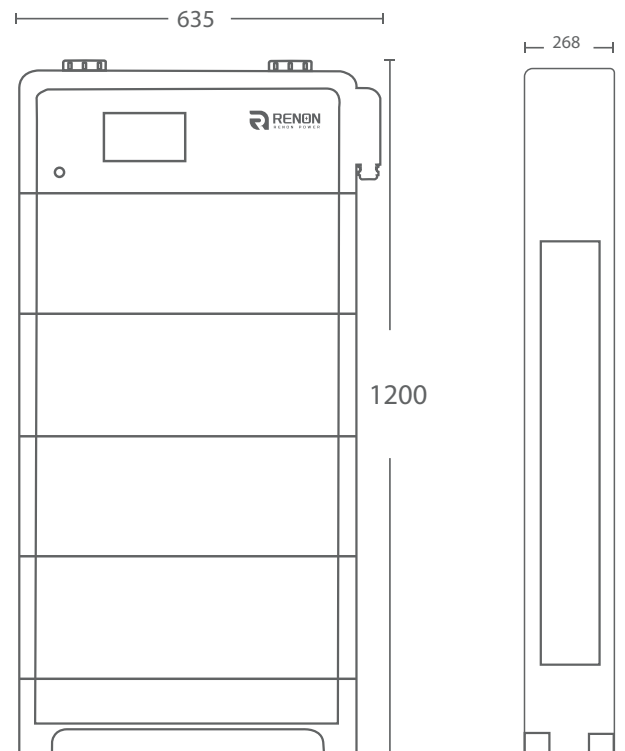
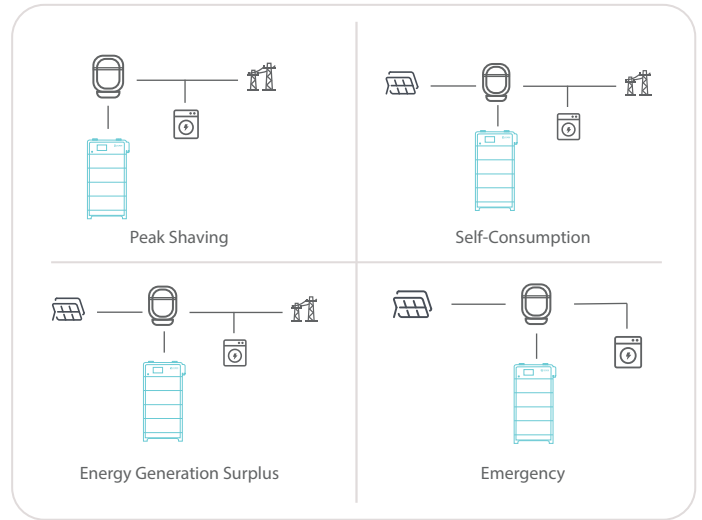
## BESS Specification (LV 100Ah)

Battery module Combination	1P16S
Cell Capacity[Ah]	100
Nominal Energy [kWh]	20.48 @4 modules
Max. Operating Current[A]	≤100A
Operating Voltage Range[Vdc]	43~57
Default Operating Voltage [Vdc]	54
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 30°C Up to 95% 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, < 50 dB(A) maximum

## System Layout



## System Characteristic

BESS Certifications	UL 9540, UL1973, UL9540A, UN 38.3
Communication Interface	CAN, Wi-Fi
Warranty	5Years + 5Years