

HV INTEGRATED HOUSEHOLD ENERGY STORAGE SYSTEM-US

RenonEBlock 2.0

- Modular stacking design supports parallel connection of systems for capacity expansion.
- Off-grid output peak power is twice the rated power for 10S, which is suitable for high power load start-up.
- Three-layer energy management system, strong protection, high reliability and long cycle life.
- IP55 protection level, smart controlling of operating temperature so that can adapt to the harsh environment.
- Complete application mode, including self-powered, time-based power control and backup power mode.



Renon EBlock Series is an integrated household Battery system that stores energy from photovoltaic, grid or generator. EBlock has a split-phase hybrid inverter for US standards. The integrated design and intelligent energy management system help optimize the use of electricity in the home. Its stacked installation perfectly matches the energy storage capacity needs of different homes and is simple to connect to any residential scheme. The Smart Cloud monitoring and control system enables users to customize system behavior or implement remote firmware updates for easy day-to-day use and maintenance.

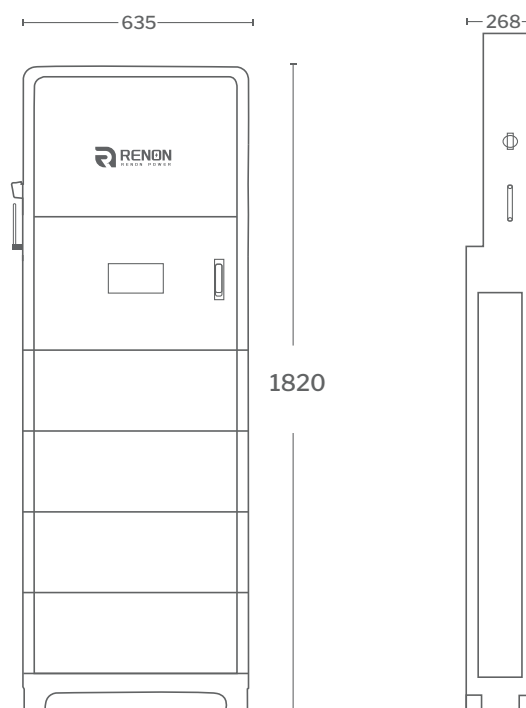
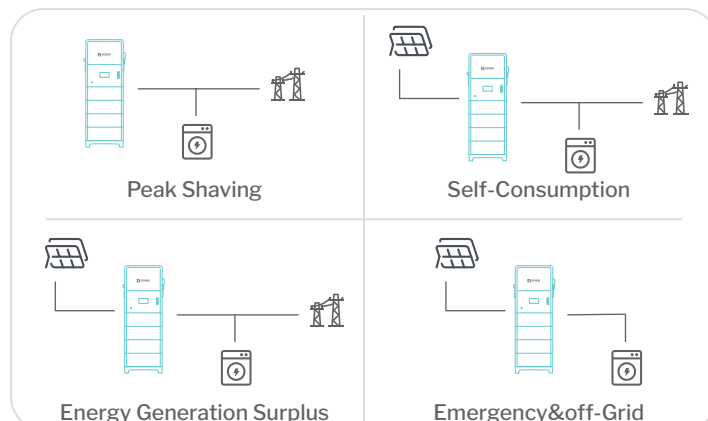
BESS Specification

Cell Capacity	100Ah
Nominal Energy	20.48kWh
Nominal Voltage	204.8V
Nominal Current	100A
Max. Current @10S	200A
Operating Voltage Range	187.52V~227.2V
Cycle Life	8000 times

Hybrid Inverter Specification

Max. PV Power Delivered to Battery & AC Outputs	13kW&15kW
PV Maximum Input Voltage	600Vdc
PV DC MPPT Voltage Range	120Vdc~550Vdc
Nominal Voltage	384Vdc
Starting Voltage	150Vdc
Number of MPPT	4 (2 Strings per MPPT)
Max DC Current per MPPT (Self Limiting)	26*4
Max AC Coupled Input (Micro/String Inverters)	22kVA
Solar Generation CEC Efficiency	97.5% at 208 V 98.0% at 240 V
Nominal Grid Voltage (Input/Output)	120/240/208VAC Split Phase
Grid Voltage Range	211.2~264VAC
Frequency	50Hz/60Hz
Phase	240VAC: 2W+N+GND
Continuous Power On-Grid/Off-Grid	15KW
Peak Off-Grid Power (10s)	30 kVA
Max. Continuous Current On-Grid/Off-Grid	62.5A
Continuous AC Power with Grid or Generator	48kW 200A L-L (240V) 24kW 200A L-N (120V)
CEC Efficiency	96.5% (Peak 97.5%)
Power Factor	+/- 0.9 - 1.0

System Layout



General Parameters

Dimension(W*T*H)	635mm*268mm*1820mm
Battery Assembly	238kg
Inverter Assembly	50kg
Enclosure	IP65 / NEMA 3R
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 Characteristic

Certifications	UL1937,UL9540,UN38.3
Emissions	FCC Part 15 Class B
Surge Protection	DC Type II / AC Type II
Communication Interface	CAN, Wi-Fi, Ethernet
Warranty	5Years Unconditional + 5Years Conditional
Grid Connection	United States