

# HV INTEGRATED HOUSEHOLD ENERGY STORAGE SYSTEM-EU

## 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 three-phase hybrid inverter for EU 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

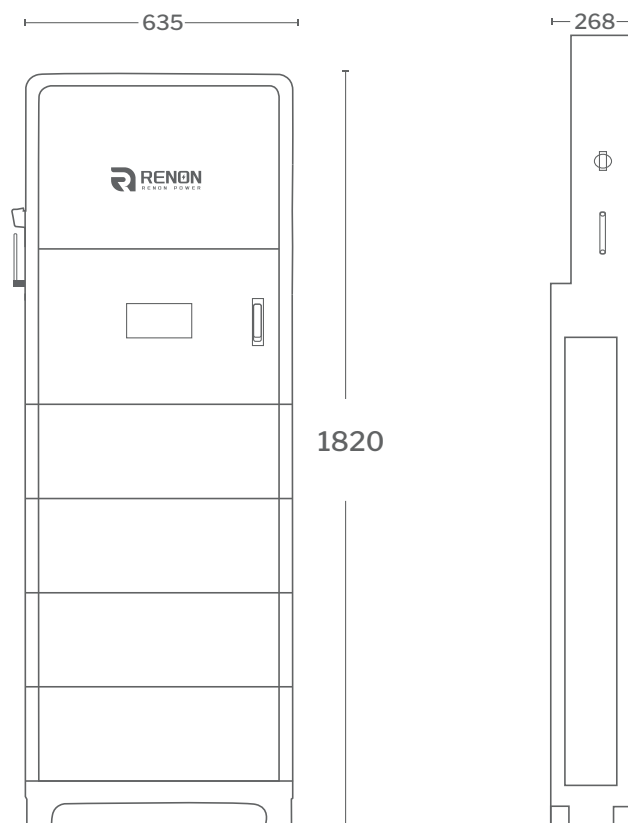
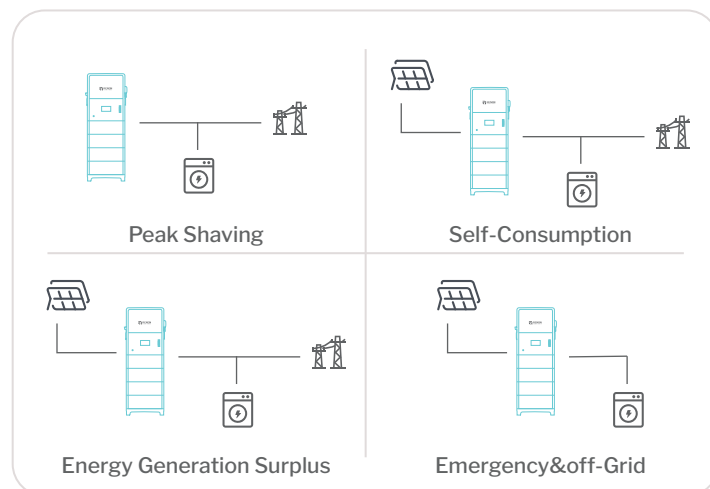
## Hybrid Inverter Specification

Rated Output Power	10kVA
Nominal Grid Voltage (Input/Output)	400/380VAC
Nominal AC Grid Frequency	50Hz/60Hz
Grid Connection Phase	3L/N/PE
Max. Output Current	15.2A
Max. Input Current	26A
Max. Total Harmonic Distortion	<3%
Power Factor	- 1 (Adjustable from 0.8 leading to 0.8 lagging)
Max Allowed PV Power	18kWp
PV Maximum Input Voltage	1000Vdc
PV DC MPPT Voltage Range	150Vdc~900Vdc
Starting Voltage	180Vdc
Number of MPPT	2
Max Solar Strings Per MPPT	2/1
Max. DC Current Per MPPT(Self Limiting)	27A/16A
Max. short Circuit Current per MPPT	34A/20A

## 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 Layout



## System Characteristic

Certifications	IEC, UN38.3
Remote Shutdown	Optional
Surge Protection	DC Type III / AC Type III
Communication Interface	CAN, Wi-Fi, Ethernet
Warranty	5Years Unconditional + 5Years Conditional
Grid Connection	Europe Union