

R5000

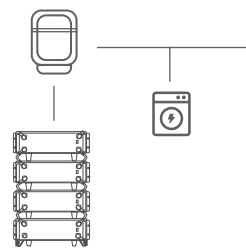
Rack-mount

BRICK series home photovoltaic energy storage system is a new type of lithium iron phosphate battery and equipped with battery management system (BMS). Long life span, optimized sized with high energy density, flexible application in residential and commercial scenarios.

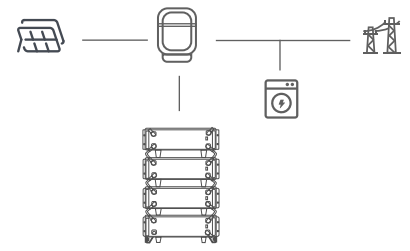


System Layout

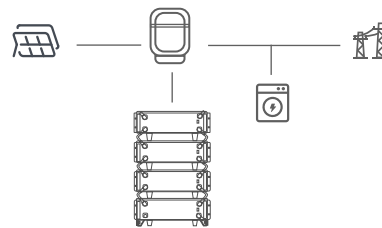
- ✓ Rack Design
- ✓ Flexible deployment
- ✓ Extreme Safety
- ✓ Cost effective
- ✓ Excellent Scalability
- ✓ Good Controllability
- ✓ Cloud Service



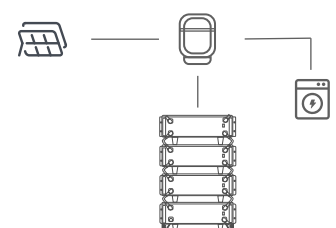
Peak Shaving



Self-Consumption

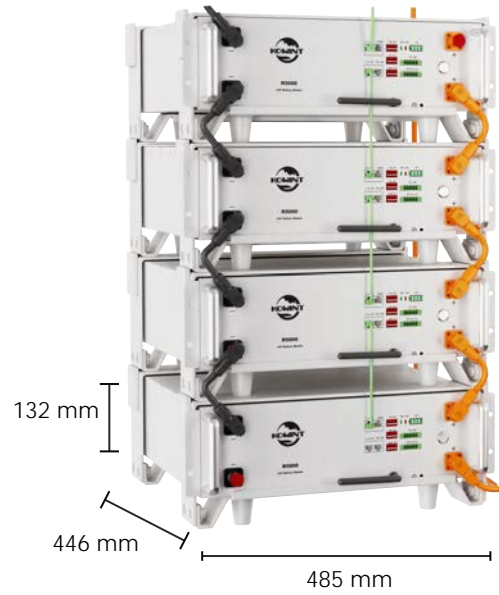


Energy Surplus



Energy Outage

- Residential grid-tie solar with backup power
- Self-Consumption
- Off-Grid Power Supply
- Energy Emergency and Outage



Dimensions with the rack mounting kit ,handle, wiring terminal



Dimensions without the rack mounting kit, handle, wiring terminal

System Characteristic

BESS Certifications	UL 9540, UL1973, UL 1642, UN 38.3
Emissions	FCC Part 15 Class B
Surge Protection	DC Type II
Warranty	5Years + 5Years

Battery

Nominal Energy (kWh)	5.12
Max. Charging/DisCharging (A)	≤100
Nominal Capacity (Ah)	100
Max. Charging Voltage (V)	58.4
Nominal Voltage (V)	51.2
Recommend Charging Voltage (V)	56.8
Recommend Discharge Cut-off Voltage (V)	46.8
Cell Model	LFP 100Ah/3.2V
Combination Mode	1P16S
Initial Internal Resistance (mΩ)	<50
Standard Charge Current (A)	20
Standard Discharge Current (A)	50

General Parameters

Dimension (L*H*W mm)	420*132*440 (Standard 3U size)
Net Weight (Approximate)	45±1kg
Enclosure	IP20
Operating Temperature	Discharge -20°C~50°C Charge 0°C~50°C
Relative Humidity Range (RH)	10% ~ 90%
Max. Operating Altitude (m)	2000
Cooling	Free convection
Communication	RS485/CAN