

# R5000

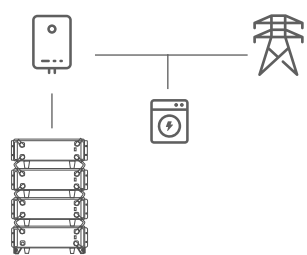
## Rack-mount

R5000 series home photovoltaic energy storage system is a new type of lithium iron phosphate battery, equipped with battery management system (BMS), which has long life span, optimized sizes with high energy density, flexibly applied in residential and commercial scenarios.

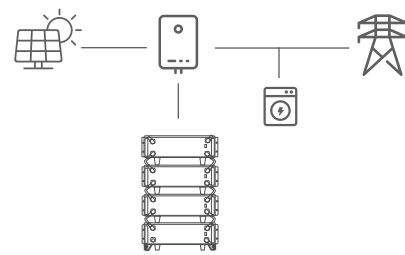
- ✓ Rack Design
- ✓ Flexible Deployment
- ✓ Extreme Safety
- ✓ Cost-effective
- ✓ Excellent Scalability
- ✓ Good Controllability
- ✓ Cloud Service



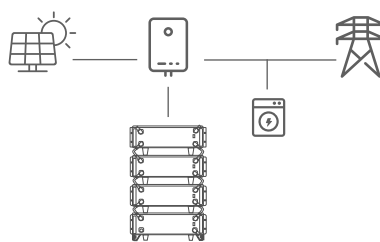
## System Layout



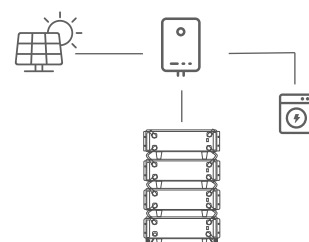
Peak Shaving



Self-Consumption



Energy Surplus



Energy Outage

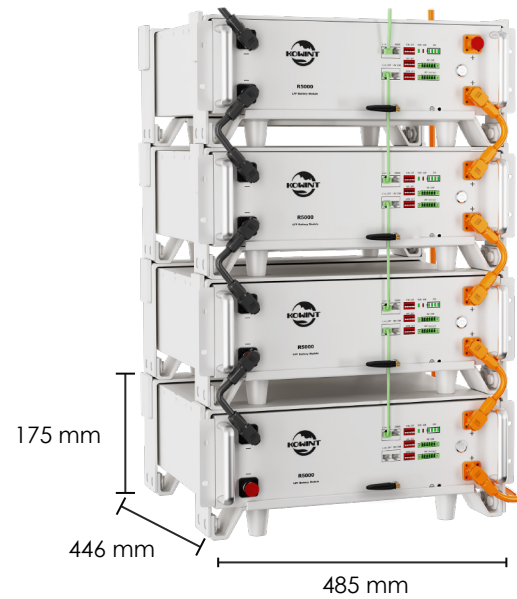
- Residential grid-tie Solar with Backup Power
- Self-Consumption
- Off-Grid Power Supply
- Energy Emergency and Outage

## System Characteristics

|                     |                                     |
|---------------------|-------------------------------------|
| BESS Certifications | UKCA, UL1973, CE, UN 38.3, IEC62619 |
| Emission            | FCC Part 15 Class B                 |
| Surge Protection    | DC Type II                          |
| Warranty            | 10Years                             |

## Battery

|                                      |            |
|--------------------------------------|------------|
| Nominal Energy                       | 5.12 kWh   |
| Max. Continuous Charging/Discharging | 95A        |
| Nominal Capacity                     | 100Ah      |
| Nominal Voltage                      | 51.2V      |
| Recommend Charging Voltage           | 56.8V      |
| Max. Charging Voltage                | 58.4V      |
| Discharge Cut-off Voltage            | 43.2V      |
| Cell Model                           | 3.2V 100Ah |
| Combination Mode                     | 1P16S      |
| Initial Internal Resistance          | <50mΩ      |
| Standard Charging Current            | 50A        |
| Standard Discharging Current         | 50A        |



Dimensions with the rack mounting kit, handles, wiring terminals



Dimensions without the rack mounting kit, handles, wiring terminals

## General Parameters

|                           |   |
|---------------------------|---|
| Dimension (W*H*D )        | 440*132*420 mm<br>(Standard 3U size)        |
| Net Weight (Approximate ) | 45kg  |
| Enclosure                 | IP20  |
| Operating Temperature     | Discharging -20°C~50°C<br>Charging 0°C~50°C |
| Relative Humidity Range   | Up to 95% RH,<br>non-condensing             |
| Max. Operating Altitude   | 2000m                                       |
| Cooling                   | Natural cooling                             |
| Communication             | CAN、RS485、WiFi                              |