

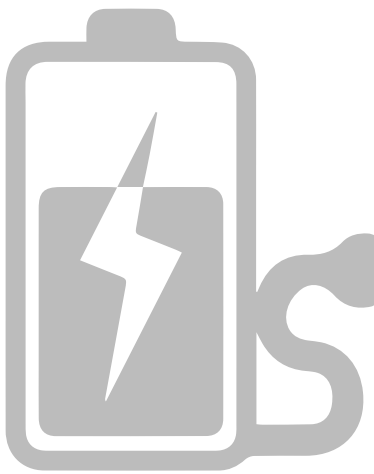


# KOWINT

Your Green Energy Coagent

# ENERGY

Product Specifications



# Residential Energy Storage Systems

# R5000

## Rack-mount

BRICK 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.

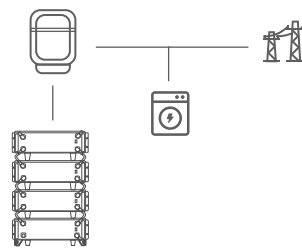
- ✓ Rack Design
- ✓ Flexible Deployment
- ✓ Extreme Safety
- ✓ Cost-effective
- ✓ Excellent Scalability
- ✓ Good Controllability
- ✓ Cloud Service



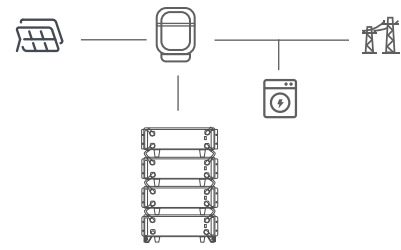
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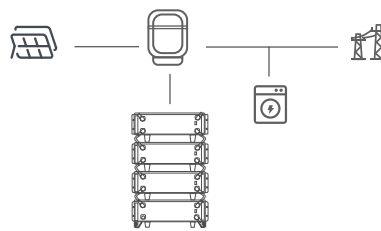
## System Layout



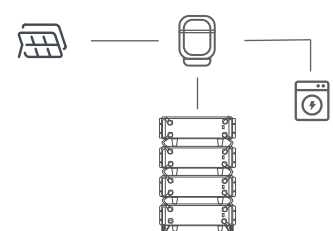
Peak Shaving



Self-Consumption



Energy Surplus



Energy Outage

# Product Specifications

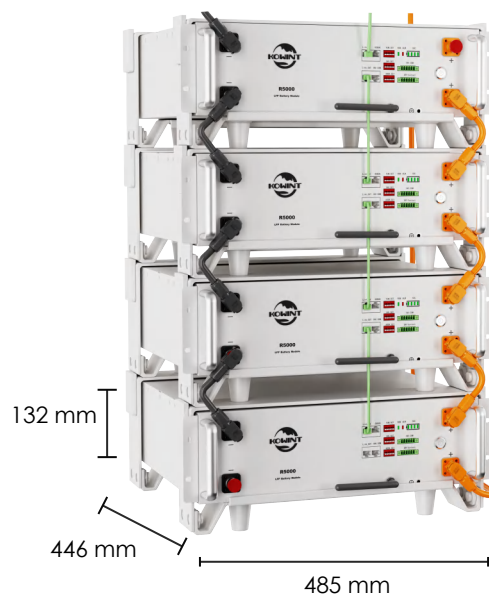
- Residential grid-tie Solar with Backup Power
- Self-Consumption
- Off-Grid Power Supply
- Energy Emergency and Outage

## System Characteristics

BESS Certifications	UL 9540, UL1973, UL 1642, UN 38.3, IEC62619
Emission	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



Dimensions with the rack mounting kit, handles, wiring terminals



Dimensions without the rack mounting kit, handles, wiring terminals

## General Parameters

Dimension (L*H*W mm)	420*132*440 (Standard 3U size)
Net Weight (Approximate)	45±1kg
Waterproof	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

# W5000

## Wall-mount

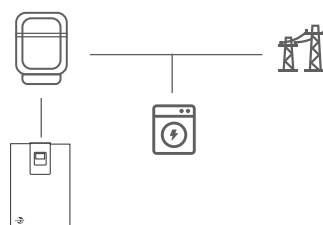
Wall-mount series W5000 is a lithium iron phosphate battery system product, which can be used to provide safe, reliable and stable energy for various equipment. Meanwhile, the module supports expansion on both capacity and power by multiple parallel uses. It supports CAN, RS485 & RS232 communication and can meet the requirements of Mainstream PV inverter communication protocols. Products can be widely used in household energy storage, industrial, commercial energy storage and other fields.

- ✓ Modern Design
- ✓ Compact Size
- ✓ Extreme Safety
- ✓ Data Visualization
- ✓ In/outdoor Installation
- ✓ Excellent Scalability
- ✓ Good Controllability
- ✓ Cloud Service

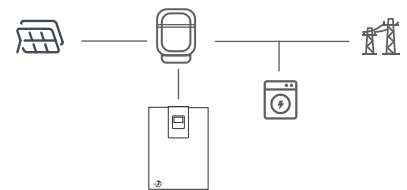
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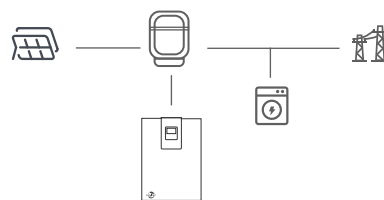
## System Layout



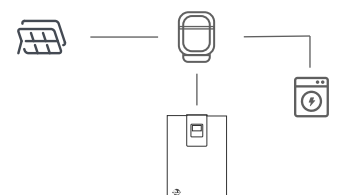
Peak Shaving



Self-Consumption



Energy Surplus



Energy Outage

# Product Specifications

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

635 mm



## W5000 Specifications

Battery Type	LiFePO4
Rated Energy	5120Wh
Nominal Capacity	100Ah
Rated Voltage	51.2V
Cell model	3.2V 100Ah Pirsmatic Battery Cell
Combination Mode	16S1P
Discharge Cut-off Voltage	46.8V
Charge Cut-off Voltage	56.8V
Max. Charge Current	100A
Max. Discharge Current	100A
Communication	RS485/RS232/CAN
Compitable Inverter Brand	SMA, Growatt, Solax, Solis, DEYE, Sungrow, Sofar, Voltronic, Sorotec, Studer, etc.
Scalability	3.2V 100Ah Pirsmatic Battery Cell
Cycle life	6000 times
Dimension H*W*D (mm)	635*450*190
Net Weight (KG)	55±2KG
Cooling	Natural cooling
Installation	Wall-mount In/Outdoor
Discharge Temperature (°C)	-20°C ~ +55°C
Charge Temperature (°C)	0°C ~ +55°C
Storage Conditions	-20°C to 30°C (-4°F to 86°F) Up to 95% RH, non-condensing State of Energy (SoE): 25% initial
Maximum Elevation	2000 m (6561 ft)

# S40K

## Modular ESS

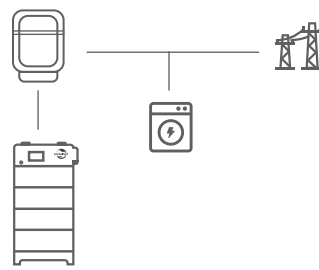
Ultra Series is a low-voltage battery system acquired flexible modular design with no extra cables, which provides optimized safety, long life span and stable performance. They are perfect batteries for all applications. Each set contains up to 8 battery modules in parallel connection and achieves usable capacity between 10.24 to 40.96 kWh.

- ✓ Modular Design
- ✓ Easy Installation
- ✓ Extreme Safety
- ✓ Data Visualization
- ✓ Superb Load Capacity
- ✓ Excellent Scalability
- ✓ Good Controllability
- ✓ Cloud Service

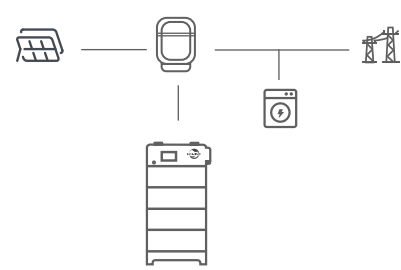
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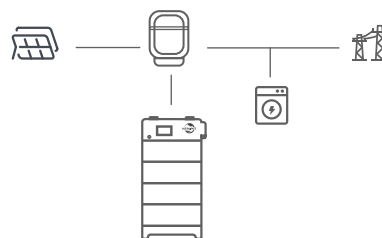
## System Layout



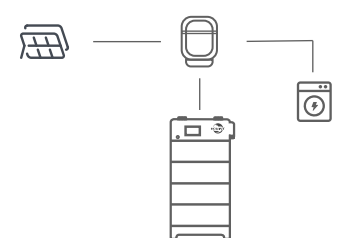
Peak Shaving



Self-Consumption



Energy Surplus



Energy Outage

# Product Specifications

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



## System Characteristics

BESS Compliances	TUV (IEC62619) / UN38.3 / MSDS/ IEC62619
Installation Method	Stack Mounting
Installation Scene	Indoor or Outdoor
Enclosure	IP55
Warranty	5 Years + 5 Years

## BESS Specifications

Module Type	C-UM05-L01				
Main Control Module	C-Ultra-MC300T1				
Module Amount	2	3	4	5	6
Nominal Energy(kWh)	10.24kWh	15.36kWh	20.48kWh	25.6kWh	30.72kWh
Nominal Voltage	51.2 V				
Operating Voltage Range	47~56.8V				

## General Parameters

Scalability	Maximum 15 Systems in Parallel
Dimension (W*T*H mm)	635*268*1302 mm @4modules
Net Weight (Approximate)	20.48kg
Operating Temperature	Discharge: -20°C ~ 50°C / -4°F ~ 122°F Charge: 0°C ~ 50°C / 32°F ~ 122°F
Storage Conditions	-20°C ~ 55°C / -4°F ~ 131°F (0°C ~ 35°C / 32°F ~ 95°F Recommended) Up to 90%RH, non-condensing, Initial SoC: 50%
Cooling	Natural Cooling
Max. Altitude	3000m (9843ft)
Service Life	6000 times
Communication Method	CAN/RS485

# Power Matrix

## HV BESS

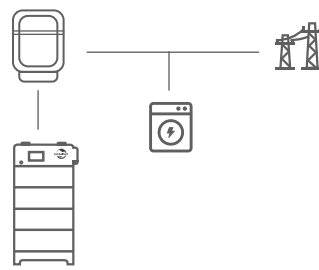
The Power Matrix is a battery storage system that uses modular battery modules to create a high voltage storage system. Each module is installed in a stack without the need for additional module indirect wires, which makes the system easy to install, maintain, and replace. The system can stack up to 5 modules, and each module is capable of operating at a voltage of up to 102.4 V.

- ✓ Modular Design
- ✓ Easy Installation
- ✓ Extreme Safety
- ✓ Data Visualization
- ✓ Versatile Application
- ✓ High Voltage Capability
- ✓ High Performance
- ✓ Cloud Service

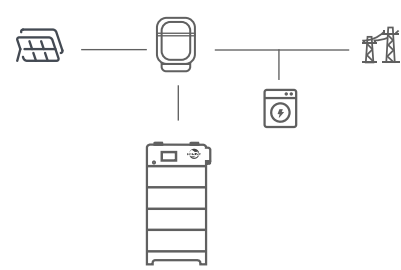
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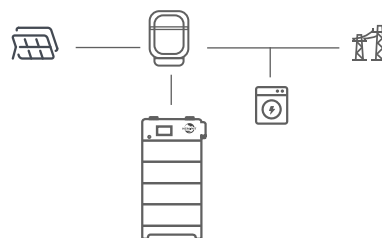
## System Layout



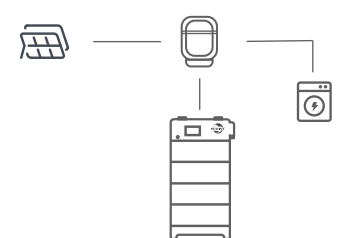
Peak Shaving



Self-Consumption



Energy Surplus



Energy Outage



# Product Specifications

- Residential Grid-tie Solar with Backup Power
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## System Characteristics

BESS Compliances	TUV (IEC62619) / UN38.3 / MSDS/ IEC62619
Installation Method	Stack Mounting
Installation Scene	Indoor or Outdoor
Ingress Protection	IP55
Warranty	5 Years + 5 Years

## BESS Specifications

Battery Module	1P32S			
Cell Capacity	50Ah			
Module Amount	2	3	4	5
Nominal Energy (kWh)	10.24	15.36	20.48	25.6
Nominal Voltage (V)	204.8	307.2	409.6	512
Nominal Power(kW)	9.83	14.57	19.66	24.58
Operating Voltage Range (V)	172.8-233.6	259.2-350.4	345.6-467.2	432-584
Max. Continuous Current (A)	≤ 48			
Max. Current (A)	≤100 @10S			

## General Parameters

Dimension (H*W*D mm)	895*678*268	1147*678*268	1400*678*268	1635*678*268
Net Weight (kg)	152	203	254	305
Operating Temperature	-20°C ~ 50°C / -4°F ~ 122°F			
Operating Humidity	Up to 100% non-condensing			
Altitude	3000m (9843ft)			
Life Cycle	6000 times			
Communication Method	CAN/Wi-Fi			



## **KOWINT ENERGY**

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### **Product Specifications**

Household  
Energy  
Storage

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