

Residential Series (for US)

Energy Storage Solution



Kowint Energy (Shenzhen) Co., Ltd. All Rights Reserved.Specifications are subject to change without notice.



KOWINT YOUR GREEN ENERGY MANUFACTURER

Established in 2014, KOWINT ENERGY is a high-tech enterprise focusing on the R&D, design, production, and sales of lithium battery energy storage systems, BMS, EMS, and lithium battery modules.

We have continuous independent innovation capabilities, excellent lithium battery module development & design abilities, and advanced manufacturing technology.Our products have passed UL, CE, ROHS, TUV, PSE, and other related certifications. Our factory has passed ISO9001 and ISO14000 system certifications.

Our products are designed to meet the needs of a wide range of applications, from residential and commercial buildings to industrial facilities and utility-scale projects. Whether you're looking to reduce your energy bills, increase your energy independence, or support your sustainability goals, KOWINT has the right solution for you.





C&I Solution



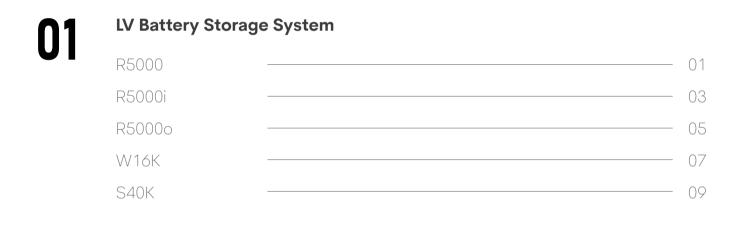
UPS Solution



CONTENTS

To produce world-class energy storage products. To serve the consumers in the global market.







Kowint Cloud

Kowint Cloud	 11
	1 1



Rack-Mount ESS **R5000** 5.12 – 158.72kWh



HIGH PERFORMANCE

- >6000 Life Cycles.
- Max. 31 units in parallel.

USER FRIENDLY SETUP

- RS485 and CAN compatible.
- Could platform / APP remote monitor.

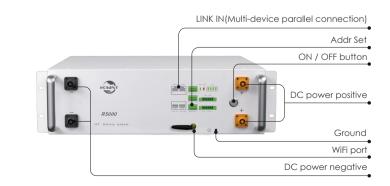
SAFE AND RELIABLE

- Intelligent BMS protecting battery cells.
- Advanced safety mechanisms ensure reliable operation.

(ŵ) E

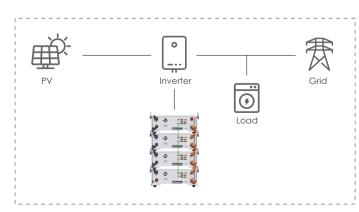
- EASY INSTALLATION
- Rack mount design.
- Lightweight and convenient , single person installation.

• System Demonstration



System Layout

⊞



Product Specifications

Battery Parameters	
Nominal Energy(kWh)	5.12
Max. Continuous Charging / Discharging(A)	95
Nominal Capacity(Ah)	100
Nominal Voltage(V)	51.2
Recommend Charging Voltage(V)	56.8
Max. Charging Voltage(V)	58.4
Discharge Cut-off Voltage(V)	43.2
Cell Model	3.2V 100Ah
Combination Mode	1P16S
Initial Internal Resistanc (m Ω)	<50
Standard Charging Current(A)	50
Standard Discharging Current(A)	50
System Characteristics	
BESS Certifications	UKCA, UL1973, CE, UN 38.3, IEC62619
Emission	FCC Part 15 Class B
Surge Protection	DC Type II
Warranty	10 Years
General Parameters	
Dimensio - W*D*H(mm/in)	440*420*132/17.3*16.5*5.2
Net Weight (kg/lb)	~45/~99.2
Enclosure	IP20
Operating Temperature(°C)	Discharging -20 ~ 50, Charging 0 ~ 50
Relative Humidity Range(RH)	Up to 95 %, non-condensing
Cooling	Natural Cooling
Communication	CAN, RS485, WiFi









(≡

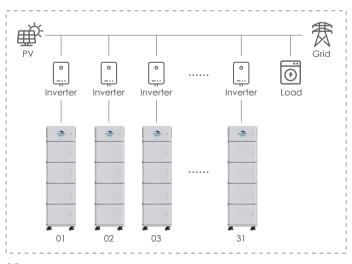
HIGH PERFORMANCE

 Capacity options from 15.36kWh to 61.44kWh for diverse indoor applications

SMART MANAGEMENT

- Intelligent BMS protecting battery cells.
- Could platform / APP remote monitor.

System Layout



ర్లా) SAFE AND RELIABLE

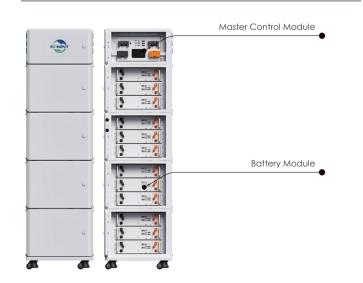
• IP20 design, available for indoor.



(FLEXIBLE APPLICATION

 Compact indoor cabinet design with modular battery configuration.

System Demonstration



Product Specifications

Battery Energy Storage	R5000i-15	R5000i-30	R5000i-45	R5000i-60						
Module Number	1	2	3	4						
Battery Module Numbe	3	6	9	12						
Nominal Energy (kWh)	15.36	30.72	46.08	61.44						
Max. Charging/Discharging (A)	300	300	300	300						
Nominal Capacity (Ah)	300	300	400	500						
Peak for 10s (A)	330	330	350	350						
Recommend Charging Voltage (V)		50	5.8							
Max. Charging Voltage (V)		58	3.4							
Discharge Cut-off (V)	43.2(Cells)									
Nominal Voltage (V)	51.2(Cells)									
Output Power voltage (V)	54(Steady Voltage)									
General Parameters										
Weight (kg/lb)	~165/363.76	~300/661.39	~435/958	~570/1,256.63						
Dimensions - W*D(mm/in)	663*635/26.1*25.0	663*635*1436	663*635*1917	663*635*2398						
Dimensions - H(mm/in)	955/37.6	1436/56.53	1917/75.51	2398/94.41						
IP Rating		IP20								
Cycle Life		8000 times @25°C, 0.5C	, 80%DOD, 80%EOL							
Designed Calendar Life	10 years									
Safety Function	Over-charge, Over-discharge, Over-current, Low/High-temperature, Low-voltage, Short-circuit Protections									
Operation Temperature		Discharge -20°C~50°C,	Charge 0°C~50°C							
Parallel Capacity		Max. 8								
Communication		R\$485, Wi-F	i, CAN							



AII-IN-ONE Cabinet ESS R5000o 30.72 / 61.44kWh





(≡)

HIGH PERFORMANCE

 Single unit delivers 30.72kWh / 61.44kWh, expandable up to 491.52kWh with 8 units in parallel

SMART MANAGEMENT

- Intelligent BMS protecting battery cells.
- Could platform / APP remote monitor.

ťΏ SAFE AND RELIABLE

• IP54 design, available for outdoor.



• All-in-one inverter & battery design for diverse outdoor applications.

System Layout 寮 町 ΡV Grid ... (?) Load • 😁 •-@ •--▲ ▲ ▲ 01 02 08

System Demonstration



• Product Specifications

Battery Energy Storage	R5000o-30	R5000o-60						
Product Module QTY	6	12						
Nominal Energy (kWh)	30.72	61.44						
Max. Charging/Discharging (A)	300	300						
Nominal Capacity (Ah)	300	500						
Peak for 10s (A)	330	350						
Recommend Charging Voltage (V)	56	6.8						
Max. Charging Voltage (V)	58	3.4						
Discharge Cut-off (V)	43.2(Cells)						
Nominal Voltage (V)	51.2(Cells)							
Output Power voltage (V)	54(Steady Voltage)							
General Parameters								
Weight (kg/lb)	400/881.85	700/1543.23						
Dimensions - W*D*H (mm/in)	760*832*1466/29.9*32.8*57.7	760*832*2266/29.9*32.8*89.2						
IP Rating	IP	54						
Cycle Life	8000 times @25°C, 0.	5C, 80%DOD, 80%EOL						
Designed Calendar Life	10 y	rears						
Safety Function	Over-charge, Over-di Low/High-temperature, Low-v	ischarge, Over-current oltage, Short-circuit Protections						
Operation Temperature	Discharge -20°C~50°	°C, Charge 0°C~50°C						
Parallel Capacity	Мс	их. 8						
Communication	R\$485, W	/i-Fi, CAN						



Wall-Mount ESS



) HIGH PERFORMANCE

● >8000 Life Cycles.

System Layout

• 314Ah Cell Capacity.

USER FRIENDLY SETUP

- Display Screen allows for real-time monitoring.
- Could platform / APP remote monitor.

🔅 SAFE AND RELIABLE

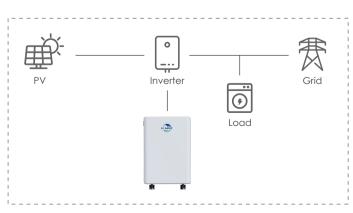
• IP65 protection degree.



EASY INSTALLATION

- Wall-mount design saves installation space.
- Lightweight and convenient ,Easy to install.

System Demonstration





ŧ

• Product Specifications

system Characteristics	
Battery Type	LiFePO4
Rated Energy(kWh)	16
Cell Capacity(Ah)	314
ated Voltage(V)	51.2
Cell Model	3.2V 314Ah
Combination Mode	16S1P
ischarge Cut-off Voltage(V)	43.2
Recommend Charding(V)	56.8
Nax. Charging / Discharging Curent(A)	200
rimary Overcurrent Protection(A)	210A@10S
econdary Overcurrent Protection(A)	250A@500mS
Communication	RS485 / CAN / RS232
compatible Inverter Brand	SMA, Growatt, Solax, Solis, DEYE, Sofar, Voltronic, Studer, etc
ycle life	≥8000 times @ 25°C
imension - W*D*H(mm/in)	560*200*800/22.05*7.87*31.50
et Weight (kg/lb)	~133/~293
rotection Degree	IP65
ooling	Natural Cooling
nstallation	Wall-Mount In
vischarge Temperature(°C)	- 20 ~ 50
Charge Temperature(°C)	0 ~ 50
orage Conditions	-20 \sim 55°C(0 \sim 35°C Recommended)Up to 95 % RH, non-condensing, Initial So : 50 %
attery Compliances	IEC 62619, UN 38.3, CEI 0-21, EN-61000



Modular LV ESS **540K** 10.24 – 40.96kWh



(-¢¢-)

HIGH PERFORMANCE

- >6000 Life Cycles.
- Each cluster is up to 40.96 kwh(8 battery modules), maximum 15 clusters in parallel to get 614.4 kWh.

(Ξ)

SMART MANAGEMENT

- Display Screen allows for real-time monitoring.
- Could platform / APP remote monitor.

🔅 SAFE AND RELIABLE

• IP65 design, available for indoor / outdoor.

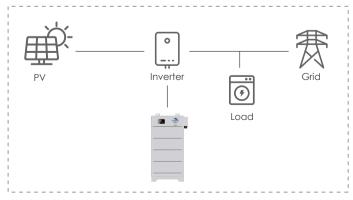


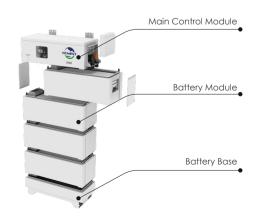
EASY INSTALLATION

System Demonstration

• Modular design for ease of expansion.

System Layout





Product Specifications

Battery Energy Storage										
Product Module QTY	2	3	4	5	6	7	8			
Nominal Energy (kWh)	10.24	15.36	20.48	25.6	30.72	35.84	40.96			
Output Power (kW)	9.7	14.6	15.4	15.4	15.4	15.4	15.4			
Max. Operation Current (A)	190	285	300	300	300	300	300			
Peak for 10s (A)	196	297	392	490	500	500	500			
Peak for 2s (A)	240	360	480	500	500	500	500			
Max. Charging Voltage (Vdc)										
Discharge Cut-off (Vdc)				43.2						
Nominal Voltage (Vdc)				51.2						
Recommend Charging Voltage	e (Vdc)			56.8						
Battery Chemistry				LiFePO4						
Dimension - W*D (mm/in)				635*268/25*10.6						
Dimension - H (mm/in)	795/31.3	.3 1023/40.3 1250/49.2 1478/58.2 1706/67.1				1934/76	2162/85			
Net Weight (kg/lb)	~141/~311	~194/~428	~247/~545 ~300/~661		~353/~778	~406/~895	~459/~1012			
General Parameters										
Scalability			Mo	ax. 15 systems ir	parallel					
Storage Conditions	-4	°F ~ 131°F(32°F	~ 95°F Recomm	nended) Up to 9	90%RH, non-cor	ndensing Initial S	SoC: 50%			
Operating Temperature			Charge: 32	°F ~ 122°F Disch	arge: -4°F ~ 122	2°F				
Cooling				Natural Coo	ling					
Max. Altitude				4000m/1312	3ft					
Cycle Life				8000 Cycle	es.					
Communication				R\$485, CAN,	WiFi					
System Characteristic										
Battery Compliances	UL1	973,UL9540, UL9	540A, UKCA, IEC	C 62619, IEC620	40, CEI 0-21, UN	38.3, EN-61000	, EN-62311			
Installation Method	nstallation Method Stack Mounting									
Installation Scene				Indoor or Out	door					
IP Rating				IP65						
Warranty [1]				10 Years						

[1] Please refer to the warranty letter for details



KOWINT CLOUD Monitoring System





Instant Clarity With Remote Data Monitoring And Analysis

 Remote data monitoring, automatic curve generation, andbig data analysis management make the product operation status clear at a glance.

```
(ÌŲ́
```

Enhanced Security With Distributed Architec-ture And Data Encryption

• Distributed architecture deployment and data security encryption ensure that cloud data is more secure andreliable.

Ø

Seamless Connections With Intelligent Malland Trial Applications

 Intelligent mall application and new product trial application enable users to contact source manufacturers directly, making product promotion faster and more accurate

Boost Customer Satisfaction With Remote firmware Upgrades

• Remote firmware upgrading and intelligent operation ancmain tenance report generation effectively improve customer satisfaction.



Optimized Channel Construction With Six-level Distribution System

• The six-level distribution system, from the brand owner toend users, is more conducive to robust product channel construction.

System Layout



Date	/	/										
	1 1		 	1 1	1 1	 		 	 	1	1 1	 1











Official email: info@kowint.com



Add.:

2203, Block B, ZhiHuiJiaYuan,76 BaoHe Road, BaoLong Community BaoLong Street, LongGang District, ShenZhen, China