Rack-Mount ESS
R5000

5.12 — 158.72kWh
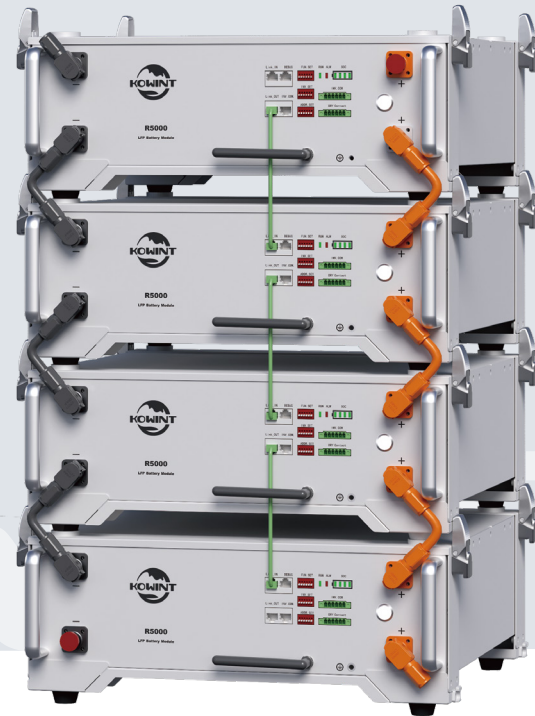
☀ HIGH PERFORMANCE

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

💡 SAFE AND RELIABLE

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

☰ USER FRIENDLY SETUP

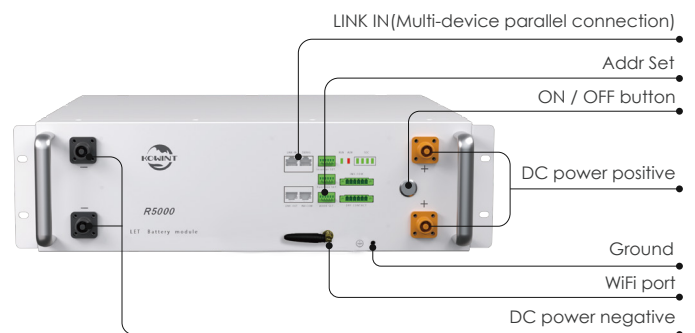- RS485 and CAN compatible.
- Could platform / APP remote monitor.

⚙ EASY INSTALLATION

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

● System Layout

PV　　　Inverter　　　Load　　　Grid

● System Demonstration

LINK IN (Multi-device parallel connection)

Addr Set

ON / OFF button

DC power positive

Ground

WiFi port

DC power negative
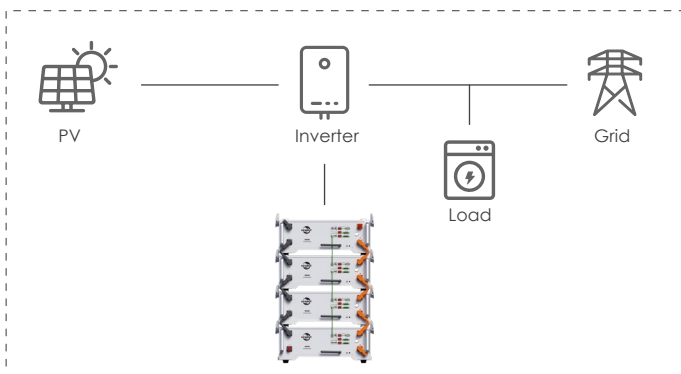
● Product Specifications

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(mΩ)	<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
Warranty [1]	10 Years

[1] Please refer to the warranty letter for details