

SOLUNA

POWER DESIGNED FOR NIGHT AND DAY

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Soluna BES 5K Pack is a low-voltage battery solution ideal for Residential and energy storage applications.

The model is adopting by latest **LiFePO₄** technology with intelligent BMS integrated inbuilt blackout protection for energy security, offering a **5.12kWh** capacity that can be installed in parallel with up to 16 batteries enabling 81.92kWh of total storage.

With a **10-year** warranty and up to 8000 long cycle life, the BES 5K Pack is a flexible, reliable, high-performance battery storage solution.

Low Voltage



Scalable to 81.92kWh

Safest LiFePO₄ battery



Long lifespan

Easy Installation



Floor, Wall Mountable



TECHNICAL SPECIFICATIONS

PHYSICAL CHARACTERISTICS

Height (mm)	580
Width (mm)	420
Depth (mm)	155
Weight (kg)	48
Installation	Floor-stand, Wall-mounted

ELECTRICAL CHARACTERISTICS

Battery type	Lithium LFP
Nominal capacity (kWh)	5.12
Nominal voltage (V)	51.2
Voltage range (usable) (V)	48-57.6
Max. charge (A)	75
Discharge current (A)	100
Depth of discharge (DoD) (%)	90
Internal resistance (mΩ)	≤60
Cycle life @ 25°C (under standard charge and discharge Conditions)	≥ 8000
Battery pack round-trip efficiency (%)	>95
DC disconnect	MOSFET Fuse

BMS

Power consumption	<3 W (working) <100 mW (sleeping)
Monitoring parameters	System voltage System current Cell voltage Cell temperature CAN Wi-Fi, RS 485
Communication	

OPERATING CONDITIONS

Operating temperature (°C)	Charge : 5 to 50	Discharge : -10 to 50
Operating temperature (recommended) (°C)	15 to 30	
Storage temperature (recommended) (°C)	15 to 30	
Humidity conditions (%)	5 to 95	
Altitude (m)	Max. 2,000	
Cooling strategy	Natural convection	

RELIABILITY AND CERTIFICATION

Hazardous materials classification	Class 9
Transportation	UN38.3
Certification	IEC62619, EMC, RoHS
Ingress protection rating	IP65
System configuration	1 to 16 parallel

WARRANTY

Product and performance	10-year warranty
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