



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 **5kWh** capacity that can be installed in parallel with up to 16 batteries enabling 80kWh of total storage.

With a **10-year** warranty and up to 6000 long cycle life, the BES 5K Pack is a flexible, reliable, high-performance battery storage solution.

Low Voltage



Scalable to 80kWh

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/discharge current (A)	75
Depth of discharge (DoD) (%)	90
Internal resistance (mΩ)	≤60
Cycle life	≥ 6000
Battery pack round-trip efficiency (%)	>95
DC disconnect	MOSFET Fuse

BMS

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

OPERATING CONDITIONS

Operating temperature (°C)	-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	
Ingress protection rating	IP 54
System configuration	1 to 16 parallel

WARRANTY

Product and performance	10-year warranty
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