



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

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|--|--------------------|
| 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 |
|-------------------------|------------------|