

SOLUNA

POWER DESIGNED FOR NIGHT AND DAY

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Soluna EOS 5K Pack premium is a 51.2V battery solution ideal for Residential and small Commercial energy storage applications.

The model is adopting by latest LiFePO₄ technology with intelligent BMS integrated in built blackout protection for energy security, offering a 5kWh capacity that can be installed in parallel with up to 30 batteries enabling 150kWh of total storage.

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



Aerosol fire protection

- Quickly extinguishes fire in seconds.
- Safe for electrical equipment.
- Starts automatically when temperature rises abnormally.



Self-heating

- Helps maintain optimal internal temperature, reducing wear and extending lifespan.
- Ensures stable energy output even when external temperatures drop.



Scalable to 150 kWh

- Modular design allows easy capacity expansion to meet different energy demands.
- Suitable for residential, commercial, and industrial energy storage

TECHNICAL SPECIFICATIONS

PHYSICAL CHARACTERISTICS

Height (mm)	595
Width (mm)	438
Depth (mm)	165
Weight (kg)	52
Installation	Floor-stand, Wall-mounted, Rack-mounted

ELECTRICAL CHARACTERISTICS

Battery type	LFP
Nominal Capacity (kWh)	5.12
Nominal voltage (V)	51.2
Voltage range (usable)(V)	48 to 57.6
Max. charge/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	Contact or fuse

BMS

Power consumption	<3W (working) <100mW (sleeping)
Monitoring parameters	System voltage System current Cell voltage Cell temperature CAN-WiFi, RS485

OPERATING CONDITIONS

Operating temperature (°C)	-10 to 50
Operating temperature(recommended) (°C)	15 to 30
Storage temperature (recommended)(°C)	-30 to 60
Humidity conditions(%)	5 to 95
Altitude(m)	Max. 2,000
Cooling strategy	Natural convection

RELIABILITY AND CERTIFICATION

Certification	UL1642 , IEC62619 & UL1973
Hazardous materials classification	Class 9
Transportation	UN38.3
Ingress protection rating	IP 65
System configuration	1 to 30 parallel

WARRANTY

Product and performance	10-year standard warranty
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