

The 5K batteries could be rack-mounted in **Soluna Liberty Cabinet** for up to 6x batteries in parallel and offers **30kWh** storage capacity.

The Cabinet Kits pre-wired for a very fast installation at customer site, and with the IP 54 rate cabinet could be outdoor installed also save the installation space which is preferred for off-grid applications.

Liberty 30K

Capacity (kWh)	30.72
Voltage (V)	51.2
Max. charge/discharge (A)	180
DoD (%)	90
Height (mm)	1340
Width (mm)	600
Depth (mm)	650
Weight (kg)	430



BATTERY MODULE EOS 5K PACK

TECHNICAL SPECIFICATION



Soluna's **EOS 5K** Pack is a 48V battery solution ideal for Residential and small Commercial 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 12 batteries enabling 40kWh of total storage.

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

IP 54 design



Scalable to 61kWh

Safest LiFePO4 battery
Wifi monitoring



Long lifespan

Easy Installation



Floor, Wall Mountable
Rack Mountable



TECHNICAL SPECIFICATIONS

PHYSICAL CHARACTERISTICS

Height (mm)	595
Width (mm)	438
Depth (mm)	165
Weight (kg)	60
Installation	Floor-stand, Wall-mounted, Rack-mounted

ELECTRICAL CHARACTERISTICS

Battery type	Lithium LFP
Nominal capacity (kWh)	5.12
Nominal voltage (V)	51.2
Voltage range (usable) (V)	40 to 58.4
Max. charge/discharge current (A)	100
Depth of discharge (DoD) (%)	90
Internal resistance (mΩ)	≤60
Cycle life	6000
Battery pack round-trip efficiency (%)	>95
DC disconnect	Contacteur fuse

BMS

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

OPERATING CONDITIONS

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

RELIABILITY AND CERTIFICATION

Certification	Cell: UL1642 Battery module: IEC62619 & UL1973
Hazardous materials classification	Class 9
Transportation	UN38.3
Ingress protection rating	IP 54
System configuration	1 to 12 parallel

WARRANTY

Product and performance	10-year standard warranty
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