

The 5K batteries could be rack-mounted in **Soluna Liberty Cabinet** for up to 6 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 EOS 5K Pack 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 inbuilt 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 is a flexible, reliable, high-performance battery storage solution.

Low Voltage



Scalable to 150 kWh

Safest LiFePO₄ battery



Long lifespan

Easy Installation



**Floor, Wall
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	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	Contacteur fuse

BMS

Power consumption	<3W (working) <100mW (sleeping)
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	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
-------------------------	---------------------------