

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 **LiFePO<sub>4</sub>** 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 LiFePO<sub>4</sub> 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,<br>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)<br><100mW (sleeping)                                                       |
| Monitoring parameters | System voltage<br>System current<br>Cell voltage<br>Cell temperature<br>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<br>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 |
|-------------------------|---------------------------|