# SOLUNA POWER DESIGNED FOR NIGHT AND DAY

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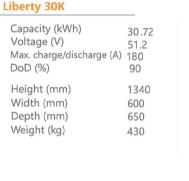
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The 5K batteries could be rack-mounted in **Soluna Liberty Cabinet** for up to 6 batteries in parallel and offers **30kWh** storage capacity.

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.



SOLUNA



## **BATTERY MODULE EOS 5K PACK**

**TECHNICAL SPECIFICATION** 



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**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.



#### **TECHNICAL SPECIFICATIONS**

| Height (mm)   | 595                                       |
|---|---|
| Width (mm)  | 438                                       |
| Depth (mm)  | 165                                       |
| Weight (kg)   | 60  |
| Installation  | Floor-stand,<br>Wall-mounted, Rack-mounte |
| 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 (m $\Omega$ )                                 | ≤60                                       |
| Cycle life @ 25°C(under standard charge and discharge conditions) | ≥8000                                     |
| Battery pack round-trip efficiency (%)                            | >95                                       |
| DC disconnect   | Contactor fuse                            |
| BMS   |   |
| Power consumption   | <3W (working)                             |
|   | <100mW (sleeping)                         |
| Monitoring parameters   | System voltage                            |
|   | System current                            |
|   | Cell voltage                              |
|   | Cell temperature                          |
| Communication   | CAN-WiFi, RS 485                          |
| 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                                    |
|   | IP 65                                     |
| Ingress protection rating   | IP 05                                     |

#### WARRANTY

Product and performance

10-year standard warranty

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