

SOLUNA™

POWER DESIGNED FOR NIGHT AND DAY

BATTERY PACK LOW-VOLTAGE

TECHNICAL SPECIFICATION

(V.2023A2)



SOLUNA™

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Soluna's EOS 5K Pack is a low-voltage battery solution ideal for typically Residential energy storage applications.

The model is adopted by the latest **LiFePO4** technology with intelligent BMS integrated inbuilt blackout protection for energy security, offering a **5kWh capacity** with a powerful **5kWp and 100A charge-discharge rate**.

They can be installed in Parallel with up to **12 batteries enabling 60kWh** of total storage, which makes the EOS 5K Pack a flexible, reliable, high-performance battery storage solution.

48V Low Voltage



Scalable to 60kWh

Safest LiFePO4 battery



Long lifespan

Easy Installation



**Floor, Wall Mountable
Rack Mountable**

**Remote Upgrade
& Monitoring**



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Soluna 10K PACK LV is a low-voltage battery solution for heavy loads of residential energy storage applications.

The model continues to be adopted by the Soluna classic **pre-assembly** design, LiFePO4 technology with intelligent BMS integrated, offering a capacity of **10kWh** with a powerful **10kWp and 200A charge-discharge rate**.

They can be installed in Parallel with up to 12 batteries enabling **120kWh** of total storage, which makes the 10K Pack LV a flexible, reliable, high-performance battery storage solution.

48V Low Voltage



Scalable to 120kWh

Safest LiFePO4 battery



Long lifespan

Easy Installation



Floor, Wall Mountable

**Remote Upgrade
& Monitoring**



TECHNICAL SPECIFICATIONS

PHYSICAL CHARACTERISTICS

	EOS 5K	10K Pack LV
Height (mm)	595	760
Width (mm)	438	500
Depth (mm)	165	215
Weight (kg)	60	100
Installation	Floor-stand, Wall-mounted, Rack-mounted	

ELECTRICAL CHARACTERISTICS

	EOS 5K	10K Pack LV
Battery type	Lithium LFP	
Nominal capacity (kWh)	5	10
Nominal voltage (V)	51.2	51.2
Voltage range (usable) (V)	40 to 58.4	48 to 57.6
Max. charge/discharge current (A)	100/100	100 / 200
Depth of discharge (DoD) (%)	90	
Internal resistance (mΩ)	≤60	
Cycle life	6000	
Battery pack round-trip efficiency (%)	>95	
DC disconnect	Contactor fuse	

BMS

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

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	CE, 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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TECHNICAL SPECIFICATIONS

WIFI STICK

WiFi Stick is an internal data logger in the Soluna battery monitoring series.

By connecting with the battery through CAN 1 interface and checking working status from the 3 LEDs on the WiFi Stick, it can collect information from battery and transmit data to the web server, realizing remote monitoring for users including Fault Alarm, Firmware update and parameter setting through web portal and a direct connection configuration with Soluna E-Cloud APP for user as well.



PHYSICAL CHARACTERISTICS

Model Name	WiFi Stick RSW-1
Dimension (H*W*D)	122*49*30 mm
Weight (kg)	0.1
Installation	Insert+Screw

ELECTRICAL

Input Voltage	DC 5V
Power consumption	1.5W

COMMUNICATION CONNECTING PORT

Supported device type	Soluna 10K/15K Pack HV(L-E)
Data collection intervals	5 minutes
Indicator	LED *3
Communication Interface	USB
Wireless communication	2.4GHz~2.48GHz/ 802.11b/g/n
Configuration	APP

ENVIRONMENT

Operating temperature	-30°C~+70°C
Storage temperature	-40°C~+90°C
Operating humidity	10%-90%
Storage humidity	<50%
Warranty	2 Years

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