

HIGH VOLTAGE BATTERY

TECHNICAL SPECIFICATION



10K & 15K PACK HV
(L-E)

(HV.2023A)

The Soluna HV Pack 10K/15K L-E is a High-voltage LiFePO4 battery storage system designed specifically for households and small businesses. Pairing with a compatible hybrid inverter for flexible system design, daily storage and peak-shaving, and independent blackout protection provides swift instant power to appliances.

Batteries are pre-assembled, compact size with high capacity 10kWh/15kWh, and 10 mins fast on-site installation & connection, which greatly increase the efficiency of installers. And with a Soluna Wifi stick, the battery can be monitored from every location.

The parallel connection of up to 10 identical HV Packs allows the scalable capacity ranges from 10kWh to 150kWh, which offers more flexibility to customers' configurations.



FEATURES

High Voltage Design



Scalable to 150kWh

10-year Warranty



Long Lifespan

Compact &
Easy Installation



Floor-Standing

Remote Upgrade
& Monitoring



Black-start

TECHNICAL SPECIFICATIONS

PHYSICAL CHARACTERISTICS	10K PACK	15K PACK
Height (mm)	971	1205
Width (mm)	654	654
Depth (mm)	227	227
Weight (kg)	105	143
Installation	Floor-stand	

ELECTRICAL CHARACTERISTICS		
Battery type	Lithium LFP	
Nominal capacity (kWh)	10	15
Usable capacity (kWh)	9	13.5
Nominal voltage (V)	268.8	384
Voltage range (usable) (V)	235.2-294	336-420
Charge voltage (V)	294	420
Discharge cut off voltage (V)	235.2	360
Charge/discharge current (nominal) (A)	20/20	20/20
Charge/discharge current (max.) (A)	40/40	40/40
Depth of discharge (DoD) (%)	90	90
DC disconnect	Contactor Fuse	

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 & CE	
Hazardous materials classification	Class 9	
Transportation	UN38.3	
Ingress protection rating	IP 54	
System configuration	1 to 10 parallel	

WARRANTY

TECHNICAL SPECIFICATIONS

HV PARALLEL BOX

The Soluna HV Parallel Box connects multiple Soluna HV 10K & 15K Pack batteries for a combined energy output of up to 60 kWh (nominal) per cluster and a maximum capacity of up to 150 kWh, providing even greater energy independence and blackout protection 24/7.



PHYSICAL CHARACTERISTICS	
Height (mm)	86.2
Width (mm)	332.4
Depth (mm)	232.4
Weight (kg)	3.5

ELECTRICAL CONNECTING PORT	
Working voltage (VDC)	530
Input current (max.) (A) (x 4)	50
Output current (max.) (A)	175
Input wiring (max.) (mm ²) (x 4)	10
Output wiring (max.) (mm ²)	35

COMMUNICATION CONNECTING PORT	
Communication connection port type	RJ45 (8P)
Input communication port (qty)	4
Output communication port (qty)	2

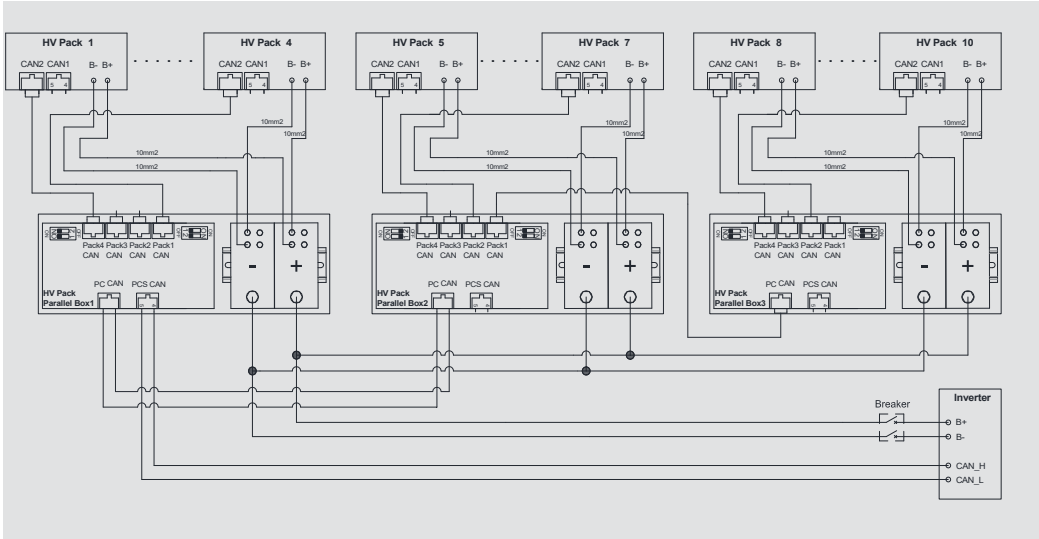
REGULAR PARAMETERS	
Operating temperature range (°C)	-20 to 50
Storage stability range (°C)	-20 to 60
Relative humidity (%)	0 to 95
Ingress protection rating	IP54
Installation	Indoors only



One step toward energy independence



Diagram for 10 units parallel connection



TECHNICAL SPECIFICATIONS
WIFI STICK

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

By connecting with the HV battery through CAN 2 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 Configuration	2.4GHz~2.48GHz/ 802.11b/g/n APP

ENVIRONMENT

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

