SOLUNA™

HIGH VOLTAGE BATTERY

TECHNICAL SPECIFICATION

6/10K & 15K PACK HV (L-E)

(HV.2023B)

SOLUNA™

POWER DESIGNED FOR NIGHT AND DAY

The Soluna **HV Pack 6K/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 6/10/15kWh, 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 6kWh to 150kWh, which offers more flexibility to customers' configurations.

FEATURES

High Voltage Design   **Scalable up to 150kWh**

10-year Warranty   **Long Lifespan**

Compact & Easy Installation   **Floor-Standing**

Remote Upgrade & Monitoring   **Black-start**

TECHNICAL SPECIFICATIONS

PHYSICAL CHARACTERISTICS	6K PACK	10K PACK	15K PACK
Height (mm)	971	971	1205 (±3)
Width (mm)	654	654	654 (±2)
Depth (mm)	227	227	227(±2)
Weight (kg)	74	105	143
Installation		Floor-stand	

ELECTRICAL CHARACTERISTICS			
Battery type		Lithium LEP	
Nominal capacity (kWh)	6	10	15
Depth of discharge (DoD) (%)	90	90	90
Nominal voltage (V)	153.6	268.8	384
Voltage range (usable) (V)	134.4~168	235.2-294	336-420
Charge voltage (V)	168	294	420
Dicharge voltage (V)	134.4	235.2	360
Charge/discharge current(nominal) (V)	20/20	20/20	20/20
Charge/discharge current(max.) (V)	40/40	40/40	40/40

OPERATING CONDITIONS	
Operating temperature (℃)	-10 to 50
Operating temperature(recommended) (℃)	15 to 30
Storage temperature (recommended) (℃)	15 to 30
Humidity conditions(%)	5 to 95
Altitude(m)	Max. 2,000
Cooling strategy	Natural convection

RELIABILITY AND CERTIFICATION	
Certification	Cell : UL1642 Battery module : IEC62619 & UL1973 CE&UL9540A & UL9540
Hazardous materials classification	Class 9
Transportation	UN38.3
Ingress protection rating	IP 54
System configuration	1 to 10 parallel

WARRANTY	
Product and performance	10-year standard warranty

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TECHNICAL SPECIFICATIONS
HV PARALLEL BOX

The Soluna **HV Parallel Box** connects multiple Soluna HV 6/10K & 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.

INVERTER

HV PACK PARALLEL BOX

SOLUNA™ 1	SOLUNA™ 2
BATTERY MODULE 10K & 15K PACK HV	BATTERY MODULE 10K & 15K PACK HV

SOLUNA™ 3	SOLUNA™ 4
BATTERY MODULE 10K & 15K PACK HV	BATTERY MODULE 10K & 15K PACK HV

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

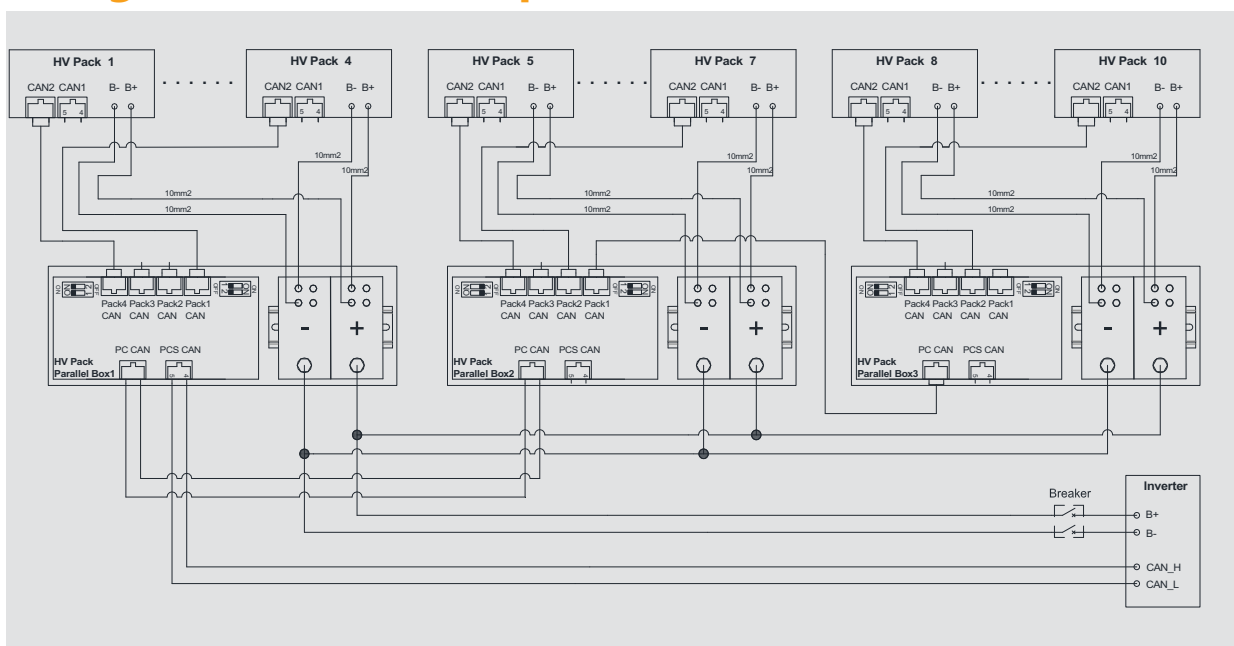|	
Communication connection port type	RJ45 (8P)
Input communication port (qty)	4
Output communication port (qty)	2

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

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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 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	2.4GHz~2.48GHz/ 802.11b/g/n
Configuration	APP

ENVIRONMENT

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