

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 150 kWh (nominal) per inverter, 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

HIGH VOLTAGE BATTERY MODULE

TECHNICAL SPECIFICATION



HV PACK 10K & 15K

Soluna's HV Pack **10K/15K** is the **pre-assembled** High-voltage **LiFePO₄** Lithium battery storage systems designed specifically for residential and small businesses. Pairing with a compatible hybrid inverter for flexible system design, daily storage and independent blackout protection across all the loads.

The parallel connection of up to 10 identical HV Packs allows a maximum capacity of **150kWh**, suitable for homes of all sizes.

Wifi



Black Start

High Voltage



Scalable to 150 kWh

10-year Warranty



Long Lifespan

Compact &
Easy Installation



Floor-Standing



Best optimizing 2023

- **Battery Monitoring** integrated into Soluna monitoring Web portal and APP.
- **Battery Power Light** indicated with 5 colors stands for different operation status, easy visual inspection on trouble shooting.
- **DC power quickly charging battery** straightforward at battery outer port when an unexpected empty happened.
- **Black Start**
- **Lightning protection SPD-2.**

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PHYSICAL CHARACTERISTICS

	10K PACK	15K PACK
Height (mm)	971	1205 (±3)
Width (mm)	654	654 (±2)
Depth (mm)	227	227 (±2)
Weight (kg)	96	141
Installation	Floor-stand	

ELECTRICAL CHARACTERISTICS

Battery type	Lithium LFP	
Nominal capacity (kWh)	10	15
Depth of discharge (DoD) (%)	90	90
Nominal voltage (V)	268	384
Voltage range (usable) (V)	235.2-294	336-420
Charge voltage (V)	294	420
Discharge voltage (V)	235.2	360
Charge/discharge current (nominal) (A)	20/20	20/20
Charge/discharge current (max.) (A)	40/40	40/40

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: UL9540A Battery module: UL9540A & UL1973 & IEC62619
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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