



# 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 **3-phase** homes and small businesses. Pairing with a compatible 3-ph HV hybrid inverter for flexible system design, daily storage and independent blackout protection across all three loads.

The parallel connection of up to 4 identical HV Packs allows a maximum capacity of **60kWh**, suitable for homes of all sizes.

**High Voltage**



**Scalable to 60kWh**

**10-year Warranty**



**Long Lifespan**

**Compact & Easy Installation**



**Floor-Standing**



## Best optimizing 2022

- **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.
- **Lightning protection** SPD-2.



## TECHNICAL SPECIFICATIONS

### PHYSICAL CHARACTERISTICS

	10K PACK	15K PACK
Height (mm)	971	1205 (±3)
Width (mm)	654	654 (±2)
Depth (mm)	227	227 (±2)
Weight (kg)	134	178
Installation	Floor-stand	

### ELECTRICAL CHARACTERISTICS

	10K PACK	15K PACK
Battery type	Lithium LFP	
Nominal capacity (kWh)	10	15
Usable capacity (kWh)	9	13.5
Nominal voltage (V)	273	390
Voltage range (usable) (V)	235.2-294	336-420
Charge voltage (V)	294	420
Discharge voltage (V)	235.2	360
Charge/discharge current (nominal)	20/20	20/20
(A) Charge/discharge current (max.)	40/40	40/40
(A) Depth of discharge (DoD) (%)	90	90

### OPERATING CONDITIONS

	10K PACK	15K PACK
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

	10K PACK	15K PACK
Certification	Cell: UL1642 Battery module: IEC62619 & UL1973	
Hazardous materials classification	Class 9	
Transportation	UN38.3	
Ingress protection rating	IP 54	
System configuration	1 to 4 parallel	

### WARRANTY

	10K PACK	15K PACK
Product and performance	10-year standard warranty	

## HV PARALLEL BOX

### TECHNICAL SPECIFICATIONS

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 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 <sup>2</sup> ) (x 4)	10
Output wiring (max.) (mm <sup>2</sup> )	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

#### MISCELLANEOUS

Warranty	3-year warranty
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