

SOLUNA™

POWER DESIGNED FOR NIGHT AND DAY

HIGH VOLTAGE BATTERY MODULE

TECHNICAL SPECIFICATION



HV PACK **10K & 15K**

SOLUNA™

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POWER DESIGNED FOR NIGHT AND DAY

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



> 6000 Cycles 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)	96	141
Installation	Floor-stand	

ELECTRICAL CHARACTERISTICS

Battery type	Lithium LFP	
Nominal capacity (kWh)	10	15
Usable capacity (kWh)	9	13.5
Nominal voltage (V)	273	390
Voltage range (usable) (V)	235.5-294	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

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 Pack: CE & IEC62619 & UL1973
Hazardous materials classification	Class 9
Transportation	UN38.3
Ingress protection rating	IP 54
System configuration	1 to 4 parallel

WARRANTY

Product and performance	10-year standard warranty
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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 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

MISCELLANEOUS

Warranty	3-year warranty
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