

TECHNICAL SPECIFICATIONS

HV PARALLEL BOX

The **Soluna HV Parallel Box** connects multiple Soluna HV 10K & 15K & 20K Pack batteries for a combined energy output of up to 80kWh (Max) ,providing even greater energy independence



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	Indoor / Outdoor



HIGH VOLTAGE BATTERY MODULE

TECHNICAL SPECIFICATION



HV PACK

10K & 15K & 20K

Soluna HV Pack 10K/ 15K /20K is the High-voltage **LiFePO4** battery storage systems designed specifically for **3-phase/ 1-phase** homes and small businesses. Pairing with a compatible 3-ph/1-ph HV hybrid inverter for flexible system design, daily storage and independent blackout protection across all three loads.

The parallel connection of up to 10 identical HV Packs allows a maximum capacity of **200kWh**, suitable for homes of all sizes.

High Voltage



Scalable to 200kWh

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

TECHNICAL SPECIFICATIONS

PHYSICAL CHARACTERISTICS

	10K PACK	15K PACK	20K PACK
Height (mm)	905	1205 (±3)	1480
Width (mm)	654	654 (±2)	654
Depth (mm)	227	227(±2)	227
Weight (kg)	105	143	176
Installation		Floor-stand	

ELECTRICAL CHARACTERISTICS

	10K PACK	15K PACK	20K PACK
Battery type		LFP	
Nominal capacity (kWh)	10	15	20
Depth of discharge (DoD) (%)	90	90	90
Nominal voltage (V)	268.8	384	499.2
Voltage range (usable) (V)	235.2-294	336-420	436.8~546
Charge voltage (V)	294	420	546
Discharge voltage (V)	235.2	360	468
Charge/discharge current(nominal) (A)	20/20	20/20	20/20
Charge/discharge current(max.) (A)	40/40	40/40	40/40

OPERATING CONDITIONS

Operating temperature (°C)	-10 to 50
Operating temperature(recommended) (°C)	15 to 30
Storage temperature (recommended) (°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: UL9540A & IEC62619 & UL1973 design
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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