

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



Long Lifespan

Compact & Easy Installation



Floor-Standing



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) | 10 | 13.5 |
| Nominal voltage (V) | 230.4 | 307.2 |
| Voltage range (usable) (V) | 216-255.6 | 288-340.8 |
| Charge voltage (V) | 255.6 | 340.8 |
| Discharge voltage (V) | 201.6 | 268.8 |
| Charge/discharge current (nominal) | 25/25 | 25/25 |
| (A) Charge/discharge current (max.) | 40/40 | 40/40 |
| (A) Depth of discharge (DoD) (%) | 100 | 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 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 |

MISCELLANEOUS

| | |
|----------|-----------------|
| Warranty | 3-year warranty |
|----------|-----------------|

