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POWER DESIGNED FOR NIGHT AND DAY

BATTERY MODULE 4K PACK TECHNICAL SPECIFICATIONS

The Soluna 4K Pack is a battery module that stores power produced by your solar system, reducing power bills and enhancing energy independence 24/7. Suitable for domestic or small commercial applications.



The Soluna 4K Pack pairs exclusively with the Soluna Power Bank series S4/S8/S12.

BATTERY MODULE 4K PACK HV TECHNICAL SPECIFICATIONS

PHYSICAL CHARACTERISTICS

Height (mm)	205
Width (mm)	678
Depth (mm)	436
Weight (kg)	60

ELECTRICAL CHARACTERISTICS

Battery type	LFP
Total capacity (kWh)	3.84
Usable capacity (kWh)	3.46
Battery capacity (nominal) (Ah)	75
Voltage range (usable) (V)	40 to 58.4
Nominal voltage (V)	51.2
Max. charge/discharge current (V)	50
Max. charge/discharge power (kW)	2.5
Depth of discharge (DoD) (%)	90
Internal resistance (m Ω)	≤60
Cycle life	6000
Battery pack round-trip efficiency (%)	>95
DC disconnect	Contactor fuse

BMS

Power consumption	<3 W (work)
	<100 mW (sleep)
Monitoring parameters	System voltage
	System current
	Cell voltage
	Cell temperature
Communication	CAN-WiFi

OPERATING CONDITIONS

Operating temperature (° C)	-10 to 45
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 module: IEC62619 & UL1973
Hazardous materials classification Transportation Ingress protection rating System configuration	Class 9 UN38.3 IP20 1 to 4 parallel

WARRANTY

Product and performance

10-year standard warranty

In support of our policy of continuous product improvement we reserve the right to change materials and specifications without notice. Drawings, where used, are not to scale. All dimensions are in millimetres and sizes given are approximate. Where possible, technical MSDS data sheets are made available on the website. All products should be installed and used in accordance with manufacturer's instructions provided. Warning: products may be the subject of registered designs and patents. Refer to website for terms and conditions on warranty.

