

BATTERY MODULE 15K PACK HV

TECHNICAL SPECIFICATION

Soluna's 15K Pack is a three-phase battery module that stores solar power. By capturing excess renewable energy for use during peak times, it enhances self-sufficiency and lowers electricity bills. Suitable for residential and commercial applications, and offering inbuilt blackout protection for energy security and peace of mind ... all day, every day.



POWER – BATTERY MODULE

Battery type	NCM
Capacity (kWh)	15
Depth of discharge (DoD) (%)	80
Voltage (V)	410
Certification	Cell: UL1642 Pack: UN38.3, UL1973 & IEC62619
Max. charge/discharge (A)	30/30
Operating temperature (° C)	-10 to 45
Storage temperature (° C)	-20 to 60
Humidity conditions (%)	5 to 95

MISCELLANEOUS

Installation	Floor install indoors
Ingress protection rating	IP54
Weight (kg)	148
Dimensions (H x W x D) (mm)	1205 (±3) x 654 (±2) x 227 (±2)
Warranty	10-year standard warranty

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TECHNICAL SPECIFICATIONS

PHYSICAL CHARACTERISTICS

Height (mm)	1205 (±3)
Width (mm)	654 (±2)
Depth (mm)	227 (±2)
Weight (kg)	148

ELECTRICAL CHARACTERISTICS

Battery type	NCM
Total capacity (kWh)	15
Usable capacity (kWh)	12
Battery capacity (nominal) (Ah)	36.6
Voltage range (usable) (V)	350-478
Nominal voltage (V)	410
Charge voltage (V)	478
Discharge voltage (V)	342
Charge/discharge current (nominal) (A)	15/15
Charge/discharge current (max.) (A)	30/30
Charge/discharge power (nominal) (kW)	6
Charge/discharge power (max.) (kW)	10
Depth of discharge (DoD) (%)	80
Cycle life	≥3600
Battery pack round-trip efficiency (%)	>95
DC disconnect	Contactors fuse

BMS

Power consumption (mA)	≤100 (work), ≤0.1 (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)	-20 to 60
Humidity conditions (%)	5 to 95
Altitude (m)	Max. 2,000
Cooling strategy	Natural convection

RELIABILITY AND CERTIFICATION

Certification	Cell: UL1642 Pack: UN38.3, UL1973 & IEC62619
Hazardous materials classification	Class 9
Transportation	UN 38.3
Ingress protection rating	IP54