

BATTERY MODULE 15K PACK HV

TECHNICAL SPECIFICATION

The Soluna 15K Pack is a three-phase battery module that enables energy storage to maximise self-consumption from your solar system to reduce electricity bills and provide energy independence. Suitable for residential or commercial solutions keeping you powered night and day.

POWER – BATTERY MODULE

Battery Type	NCM
Capacity (nom)	15kWh
D.O.D	80%
Voltage	410V
Certification	Cell: UL1642
Pack	Refer to UN38.3, UL1973, IEC62619 design
Max Charge/Discharge	30A/30A
Operating Temp	-10° to 45°C
Storage Temp	-20° to 60°C
Humidity Conditions	5% to 95%

MISCELLANEOUS

Installation	Floor install in an indoor and/or covered area
IP	IP54
Weight	148kg
Dimensions (H x W x D)	1205 x 654 x 227mm
Warranty	10 Year warranty



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TECHNICAL SPECIFICATION

PHYSICAL CHARACTERISTICS

Width	654 +/- 2 mm
Depth	227 +/- 2 mm
Height	1205 +/- 3 mm
Weight	148 kg

ELECTRICAL CHARACTERISTICS

Battery type	NCM
Total Energy Capacity	15 kWh
Usable Energy Capacity	12 kWh
Battery Capacity (Nominal)	36.6 Ah
Voltage Range (Usable)	350~478V
Nominal Voltage	410 V
Charge Voltage (CV)	478 V
Discharge Voltage	342 V
Charge/Discharge Current (Nominal)	15A/15A
Charge/Discharge Current (Max)	30A/30A
Charge/Discharge Power (Nominal)	6 kW
Charge/Discharge Power (Max)	10 kW
DOD	80%
Cycle life	≥3600
Battery Pack Round-Trip Efficiency	>95%
DC Disconnect	Contacteur Fuse

BMS

Power consumption	≤100mA (work), ≤0.1mA (sleep)
Monitoring parameters	System Voltage System Current Cell Voltage Cell temperature
Communication	CAN

OPERATING CONDITIONS

Operating Temperature	-10~45 C
Operating Temperature (Recommended)	15~30 C
Storage Temperature	-20~60 C
Humidity	5%~95%
Altitude	Max. 2,000 m
Cooling Strategy	Natural Convection

RELIABILITY & CERTIFICATION

Certificates	Cell: UL1642 Battery Module: ASNZS 60950.1_2015 AS IEC 62619:2017 & UL1973
Hazardous Materials Classification	DG-Class-09
Transportation	UN38.3
Ingress Rating	IP54