



5.12kWh 51.2V

100Ah STACKABLE LiFePO₄ BATTERY

TECHNICAL SPECIFICATION SHEET



Specifications

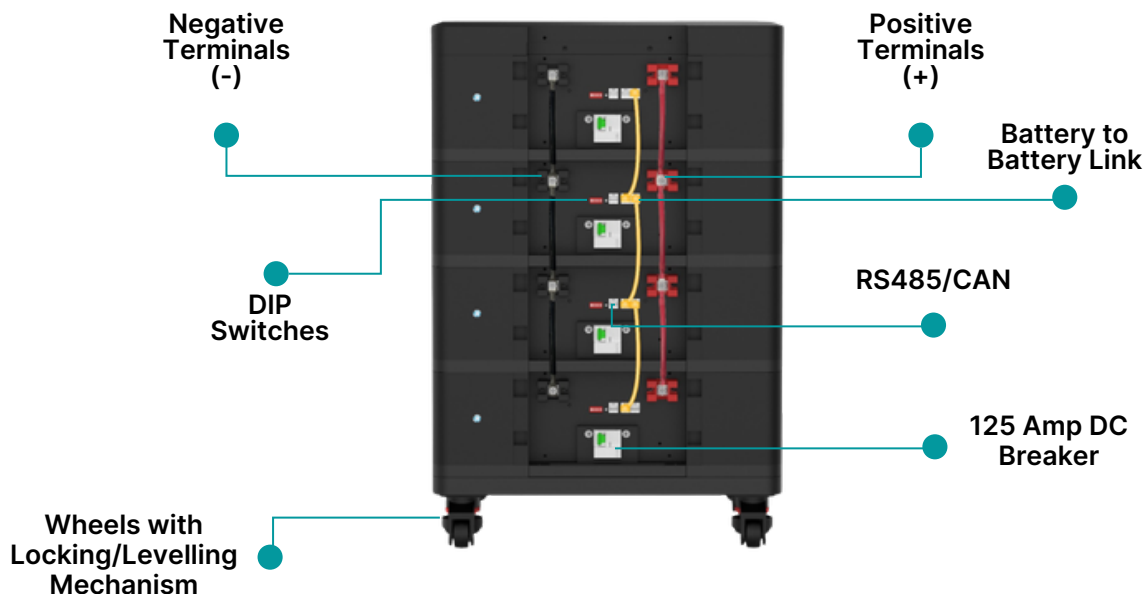
Rated Voltage (V)	51.2V
Maximum Charge (V)	57.6V
BMS	SEPLOS 100A
Nominal Capacity (Ah)	100Ah
Minimum Capacity (Ah)	100Ah
Maximum Charge Current (A)	100A
Total Wh	5,120
Maximum Discharge	100A
Discharge Cut-off Voltage	43.2V
Discharge Temperature	-20°C to 40°C
Charging Temperature	0°C to 45°C
Storage Temperature	1 Month: -10°C ~ 35°C 3 Months: 25 ± 2 °C
Relative Humidity	65% ~ 20%
Cell Configuration	16S1P
Cycle Life	6,000 @ 91% DOD
Communication Ports	CAN, RS485
Design Life	15 years
Weight	48kg
Active Balancer	2A
Preloaded Inverter Protocols	Compatible with multiple LV inverters, including but not limited to Luxpower, Sunsynk, Solis, Victron and more.



Reliability by Design

At Fogstar, quality isn't an afterthought, it's our foundation. Every battery is engineered and tested to exacting standards, with meticulous attention to safety, consistency, and performance. From component selection to final assembly, our processes are built to deliver long-term reliability you can trust.





Safety Precautions



Never work on these batteries while powered or connected to the grid. Install only in suitable, safe environments by a qualified person, following all electrical codes. Ensure correct grounding, polarity, programming, cabling, and torque. Use only with compatible 51.2V systems. Never in series or with other chemistries. Keep away from heat, hazards, pets, and children. If overheating or burning smells occur, trip the breaker and call emergency services. Clean only with a dry cloth.

Battery Warranty

The Fogstar Energy 5.12kWh stackable battery comes with a 6-year warranty and 10-year customer support, covering BMS failure, cell failure, temperature sensors, charging/discharging faults, and internal corrosion. A full warranty document can be found on our website www.fogstar.co.uk.

To submit a claim, contact Fogstar Customer Support:

 customerservice@fogstar.co.uk

 01527 757980

Please include your proof of purchase and a clear description of the issue.

Parallel Connectivity

Unlimited connectivity in parallel. These batteries cannot be connected in Series.

Charging Parameters

Bulk: 57.6V

Float: 55.2V

Low DC cut off: 43.2V

Battery Connections

We supply 21.2mm² positive and negative battery cables terminated with M6 ring lugs. These are intended as battery-to-battery links and are only required when connecting multiple stackable batteries in parallel. For correct installation, always connect all negative conductors before attaching the positive.

A 1.5m communication cable is also included, enabling straightforward data integration and battery-to-battery communication cables (RS485-to-RS485), ensuring straightforward system integration.

Updating the Inverter Protocol

The Seplos BMS seamlessly integrates with a wide range of popular inverters, containing pre-loaded protocols for Victron, Pylontech, Growatt, Sofar, Solis, and Goodwe. Changing the inverter protocol doesn't involve any complex software downloads; you can change it simply by navigating the LCD Touchscreen.

JK Active Balancer

The 2A JK active balancer ensures cell balancing by actively transferring energy between cells. It will automatically activate whenever significant disparity is detected in the pack. This results in improved efficiency, longer battery lifespan, and more stable performance across the pack.

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