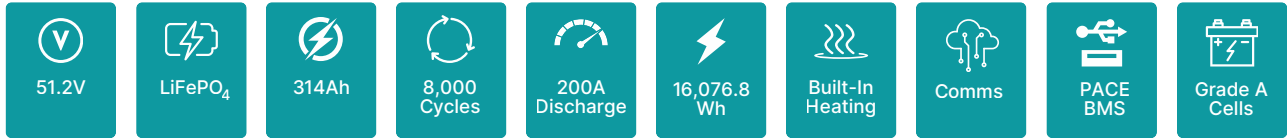




16.1kWh 51.2V

314Ah LiFePO₄ BATTERY

TECHNICAL SPECIFICATION SHEET



Specifications

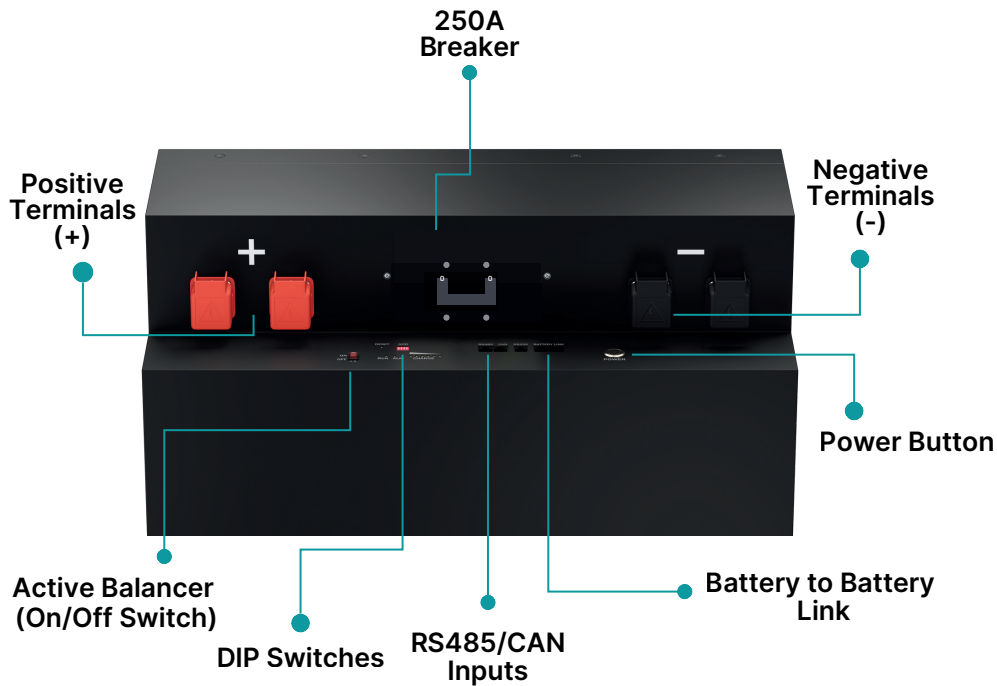
Rated Voltage (V)	51.2V
Maximum Charge (V)	57.6V
BMS	PACE 200A
Nominal Capacity (Ah)	314Ah
Minimum Capacity (Ah)	314Ah
Maximum Charge Current (A)	200A
Total Wh	16,076.8
Maximum Discharge	200A
Discharge Cut-off Voltage	43.2V
Discharge Temperature	-20°C to 60°C
Charging Temperature	-20°C to 45°C (heater enabled)
Storage Temperature	1 Month: -20°C ~ 60°C 3 Months: -10°C ~ 40°C 1 Year: -5°C ~ 20°C
Relative Humidity	45% ~ 85%
Cell Configuration	16S1P
Cycle Life	8,000 @ 80% DOD
Communication Ports	CAN, RS485, RS232
Design Life	15 years
Weight	140kg
Active Balancer	2A
Preloaded Inverter Protocols	Compatible with multiple LV inverters, including 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



Due to its significant weight (140kg), it's crucial to have at least six people assist with lifting, adhering to safety regulations.

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 16.1kWh battery comes with a 10-year warranty 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

Up to 15 units can be connected 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 1.5m, 50mm² battery cables terminated with M8 ring lugs, suitable for direct connection between the battery and inverter, or via an external busbar. For correct installation, connect all negative conductors before attaching the positive.

The supplied cables are compatible with most inverters; however, in certain configurations, it may be necessary to route the battery cables to a busbar and then use the manufacturer-supplied inverter leads for the final connection.

A 1.5m communication cable is also included, enabling straightforward data integration.

Updating the Inverter Protocol

The PACE Battery Management System (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.

Battery Heating

The integrated heating system activates below 5 °C, enabling safe charging at 0 °C and reliable operation in ambient temperatures down to -20 °C.