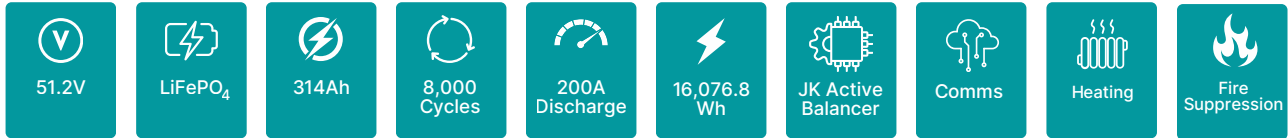




# 16.1kWh 51.2V

## ECO 314Ah LiFePO<sub>4</sub> BATTERY

### TECHNICAL SPECIFICATION SHEET



#### Specifications

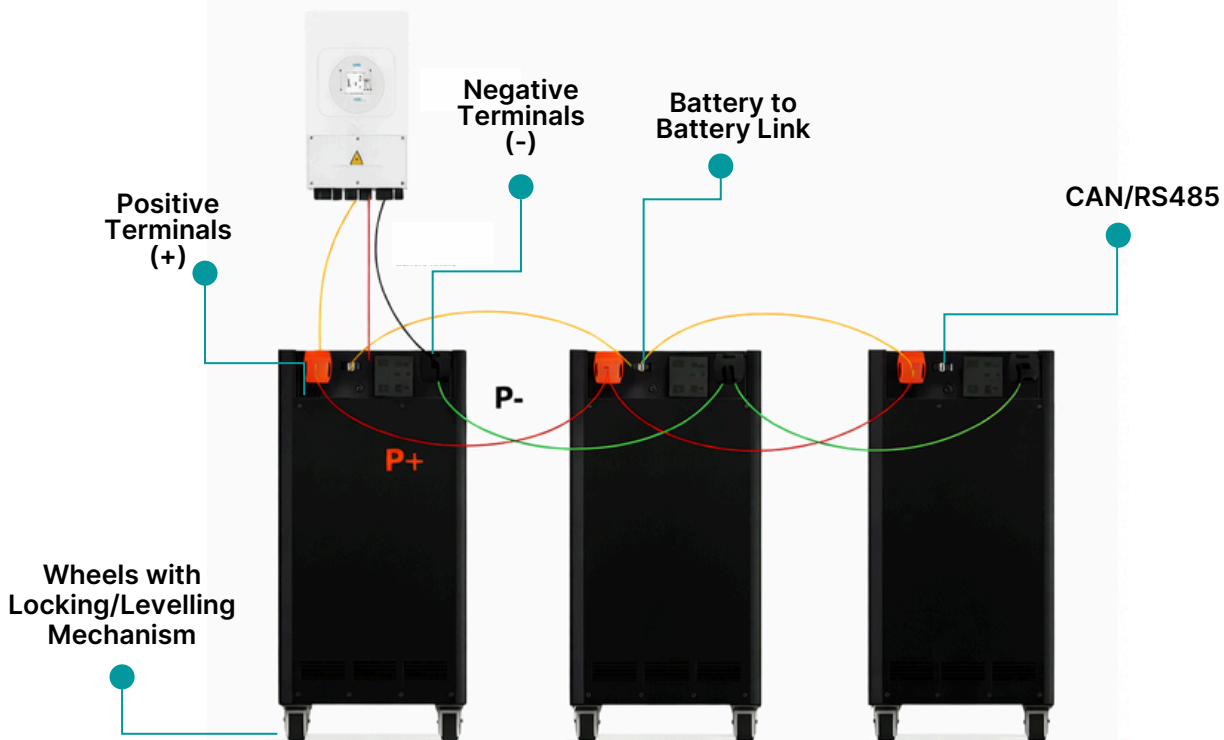
Rated Voltage (V)	51.2V
Maximum Charge (V)	57.6V
BMS	SEPLoS 200A
Nominal Capacity (Ah)	314Ah
Minimum Capacity (Ah)	314Ah
Maximum Charge Current (A)	200A
Total Wh	16,076.8
Maximum Discharge	200A
Discharge Cut-off Voltage	43.2V
Discharge Temperature	-20°C to 40°C
Charging Temperature	-10°C to 40°C
Storage Temperature	1 Month: -10°C ~ 35°C 3 Months: 25 ± 2 °C
Relative Humidity	65% ~ 20%
Cell Configuration	16S1P
Cycle Life	8,000 @ 91% DOD
Communication Ports	CAN, RS485, RS232
Design Life	15 years
Weight	119.5kg
Active Balancer	2A
Preloaded Inverter Protocols	Compatible with multiple LV inverters, including Sunsynk, Solis, Victron and more.



#### Built-In Fire Suppression Unit

Our ultra-thin, built-in aerosol unit stops fires the moment they start. When temperatures spike to 170°C, the system releases a fast-acting potassium aerosol that instantly disrupts the fire's chemical reaction. Result: rapid suppression, zero maintenance, and reliable protection for enclosed electrical spaces.





### Safety Precautions



Due to its significant weight (119.5kg), 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 ECO 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](http://www.fogstar.co.uk).

To submit a claim, contact Fogstar Customer Support:

✉ [customerservice@fogstar.co.uk](mailto:customerservice@fogstar.co.uk)  
☎ 01527 757980

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

### Parallel Connectivity

Up to 16 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, 50mm<sup>2</sup> 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

Compatible with multiple LV inverters, including but not limited to LuxPower, Sunsynk, Solis, Victron, Voltacon and more.

### 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.

### 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.