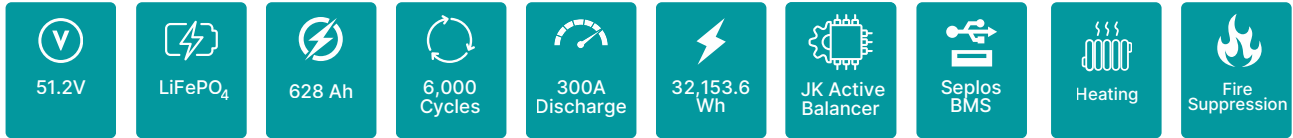




# 32kWh 51.2V

## 628Ah LiFePO<sub>4</sub> BATTERY

TECHNICAL SPECIFICATION SHEET



### Specifications

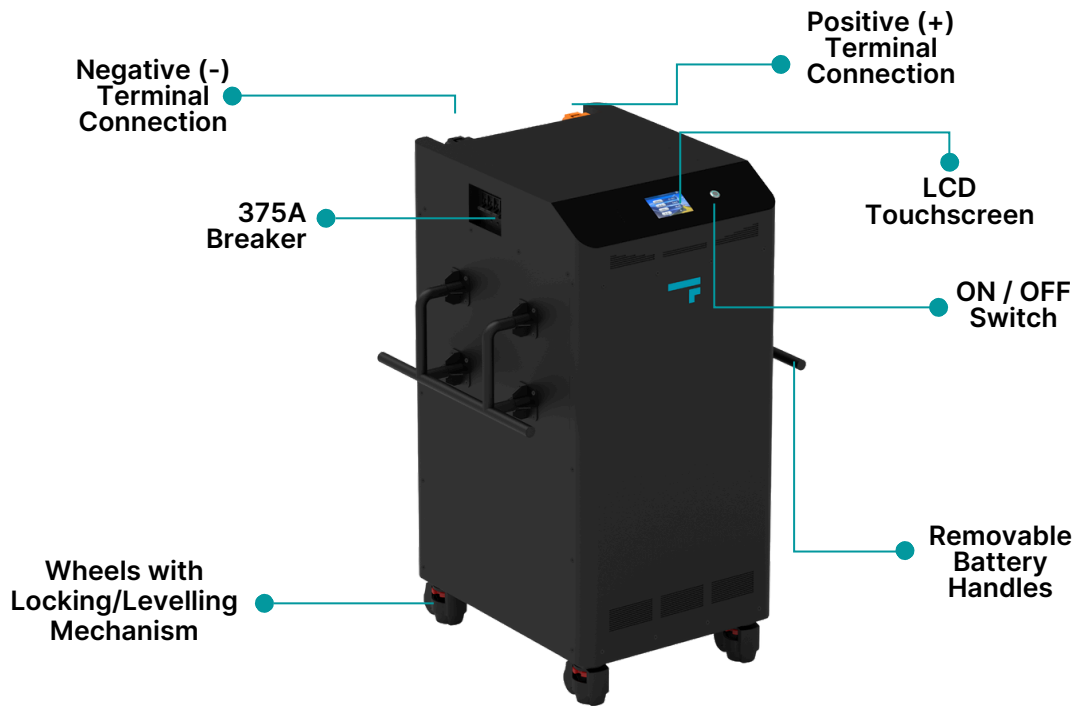
Rated Voltage (V)	51.2V
Maximum Charge (V)	57.6V
BMS	SEPLoS 300A
Nominal Capacity (Ah)	628Ah
Minimum Capacity (Ah)	628Ah
Maximum Charge Current (A)	300A
Total Wh	32,153.6
Maximum Discharge	300A
Discharge Cut-off Voltage	43.2V
Discharge Temperature	-20°C to 40°C
Charging Temperature	-10°C to 40°C
Storage Temperature	1 Month: -10°C ~ 35°C 3 Months: 25 ± 2 °C
Relative Humidity	65% ~ 20%
Cell Configuration	2P16S
Cycle Life	8,000 @ 91% DOD
Communication Ports	CAN, RS485
Design Life	15 years
Weight	230kg
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 (230kg), it's crucial to have at least ten 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 32kWh 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. Excludes misuse, tampering, incompatible systems, or accidental damage.

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, 95mm<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

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.

**WWW.FOGSTAR.CO.UK**