
Energy2 16kWh LFP Battery V3.1 Specification

Energy to everyone. Everywhere. Document Version: 1.0 Effective Date: 1 June 2025

This document describes the Energy2 v3 Black V3.1 (16 kWh) as built and shipped from 1 June 2025.

- The only energy storage system designed, manufactured and installed here in the UK.
- Store low-carbon grid and solar energy when it's cheap, and use it later when energy prices are high.
- Go off-grid, outsmart the energy companies and save over 70% on your energy bills.
- **16kWh** of useable capacity using EVE MB31 LFP cells.
- Smart and proactive monitoring that optimises energy usage to maximise your investment.
- Installed and configured in 1 day.
- Engineered as an open and scalable system to flexibly adapt and grow as your needs change — 16 kWh to 256 kWh.
- Fire resistant LFP battery chemistry promotes enhanced safety.



Technical Specifications

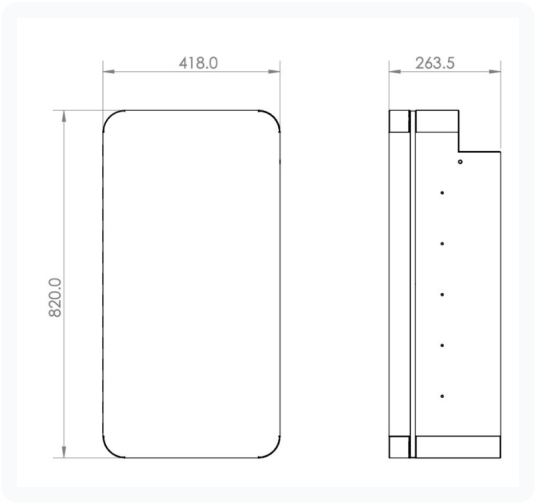
Feature	Specification
Capacity	16kWh Useable
Technology	Lithium Iron Phosphate (LiFePO4) or LFP
Cell	EVE MB31 (LFP, prismatic)
Cell Configuration	16S1P (16 LFP battery cells in series)
Nominal Voltage	51.2V
Full Voltage	56V
Empty Voltage	45V
Current	200A
Active Cell Balancing	2A
Maximum Power	10kW
Cycle Life	6,000 @ 80% Depth of Discharge (DOD)
Warranty	15 Years (See V3.1 Warranty Terms)
Weight	110kg
Dimensions	82cm (H) x 41cm (W) x 27cm (D)
Communication Port	CAN
Inverter Compatibility	Victron, Sunsynk, Growatt, Solis (Low Voltage)
Parallel Config	Up to 16 units (16kWh – 256kWh)
Part Number	E2-16-3.1
Certification	

Feature	Specification
	Safety-Critical Components (Cells, BMS, Breaker): IEC 62619 Tested. System Design: Aligned to IEC 62619 (Pilot Series)

Environmental Specifications

Feature	Specification
Discharge Temperature	-20°C to 60°C
Charging Temperature	0°C to 45°C
Storage Temperature (1 mth)	-20°C to 45°C
Storage Temperature (3 mths)	-10°C to 35°C
Storage Temperature (1 year)	0°C to 25°C
Relative Humidity	45% - 85% RH

Dimensions



Care and Maintenance

- **Location:** The battery installation location must remain a clean, dry and well-ventilated location, free from excessive dust, moisture, salt spray, chemical vapours and direct water ingress.
- **Airflow:** Adequate airflow around the enclosure must be maintained at all times and the unit must not be covered, obstructed or used to support stored items.
- **Service:** The battery must not be opened, moved, modified or serviced by anyone other than Energy2 Ltd or an Energy2 approved battery energy storage engineer.
- **End-of-life:** Do not dispose of the Battery Pack with general waste. Energy2 provides a free take-back service for end-users — see below.

End-of-Life & WEEE Disposal

The Battery Pack must not be disposed of with general household or commercial waste at the end of its useful life. The crossed-out wheeled-bin symbol on the product indicates that the item must be returned for environmentally responsible recycling under the **Waste Electrical and Electronic Equipment Regulations 2013** and the **Waste Batteries and Accumulators Regulations 2009**.

Free take-back service. Energy2 offers a free take-back service for end-users of its equipment:

- We arrange collection of the waste battery from the end-user at no charge, in accordance with regulation 32 of the Waste Batteries and Accumulators Regulations 2009.
- To arrange collection, contact **hello@energy2.co.uk** or **0800 112 6345** with the original system serial number where known.
- Do **not** attempt to dispose of a lithium battery in household waste, kerbside recycling, or by any other informal means. Lithium batteries can present a serious fire and chemical hazard if damaged, short-circuited or disposed of incorrectly.

Safe handling before collection. Whilst awaiting collection, customers should:

- Keep the waste battery in a dry, well-ventilated location away from combustible materials and direct sunlight.
- Avoid further mechanical impact, deformation, or exposure to water or other liquids.
- If the battery shows any sign of damage, leakage, swelling, discolouration, abnormal heat, smoke or odour, contact Energy2 immediately on **0800 112 6345** for urgent guidance and, where necessary, the local fire and rescue service on **999**.

Energy2 Ltd is a registered producer of batteries and electrical equipment in the UK. **Battery Producer Registration Number: BPRN12745**. For the full WEEE & Battery Compliance Statement, see weee_compliance.html.

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