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Energy2 16kWh Rack Battery Specification

Overview

- Engineered to UK Specification
- Structural and electrical safety
- Rack mount and freestanding installation
- Programmatic cell sorting for matched cells
- Active balancing technology
- Compatibility with all open architecture inverters

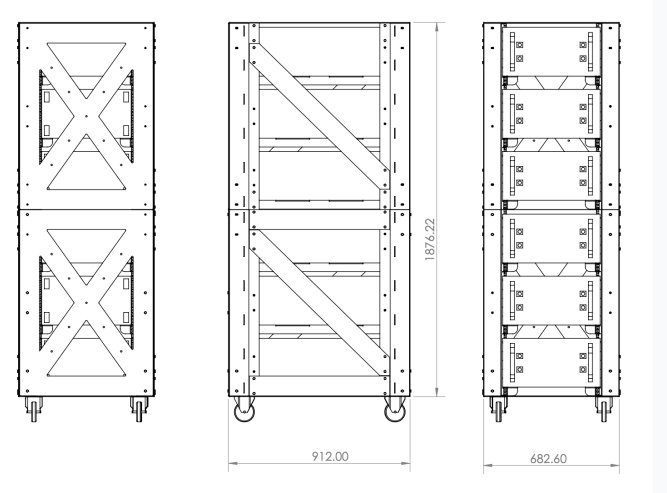
Configuration Options

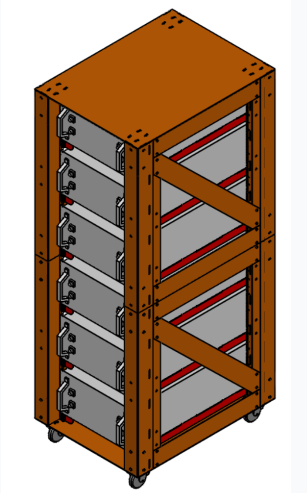
Modules	Usable Energy	Nominal Capacity	Max Cont. Output (Current)	Max Cont. Output (Power)	Max Cont. Input (Current)	Max Cont. Input (Power)
1	16kWh	314Ah	200A	10.2kW	140A	7.2kW
2	32kWh	628Ah	400A	20.4kW	280A	14.4kW
3	48kWh	942Ah	600A	30.6kW	420A	31.6kW
16	256kWh	5024Ah	3000A	153kW	2100A	108kW

Technical Parameters

Feature	Specification
Battery Cells	314Ah Prismatic LiFePO4
BMS	Pace BMS
Active Balancer	4A Bluetooth Active Balancer
Dimensions	882.5mm (L) x 482.6mm (W) x 241mm (H)
Weight	120kg
Nominal Voltage	51.2 VDC
Operating Voltage	44 - 55.2 VDC
Communication	CAN / RS485 / RS232
Lifecycles	6000+
Enclosure Protection	IP21 (Indoor Use)
Round-Trip Efficiency	≥95%
Scalability	Maximum 16 modules in parallel (256kWh)
Certification	CE / UN38.3 / IEC 62619
Applications	On Grid / On Grid + Backup / Off Grid
Warranty	5 years (extendable to 20 years)

Dimensions





Care Instructions

- **Location**: The battery installation location must remain a clean, dry and well-ventilated location, free from excessive dust, moisture, salt spray, chemical vapours and 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.