



**LOADSHREDDER**

Load Shredder Dynamo 4810 and  
4815

Specifications Document

## Introduction

The Load Shredder Dynamo 4810 and 4815 are our premium level batteries for home and business use. This is a 48-volt based system, perfectly matched to a larger energy requirement. It can be stacked ten times to cater for the largest workloads.

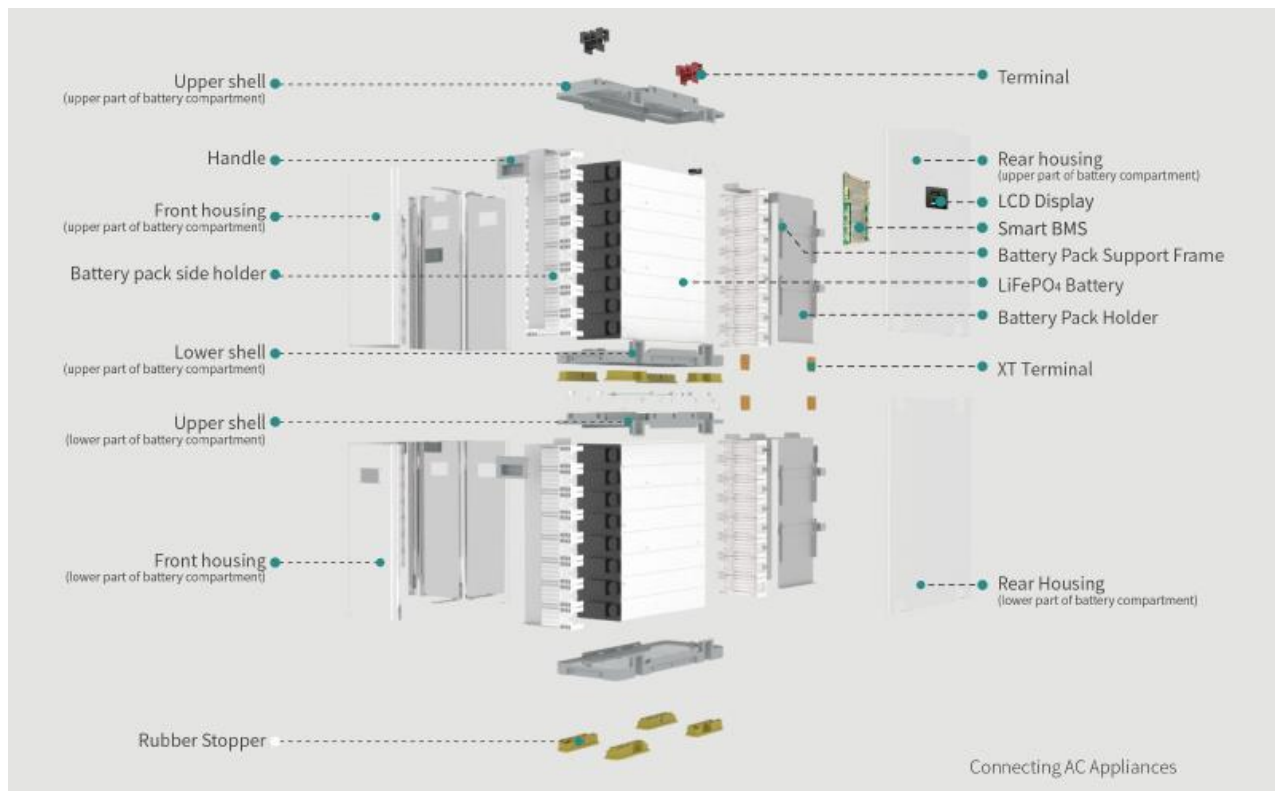
The cells are A-Grade Energy Storage System prismatic cells from one of the world leaders in prismatic cells. These cells are computer matched for the longest life. The intelligent BMS communicates with 95% of the world's inverters and balances the cells throughout their lifespan.

The shell is made of a high-Quality Aluminium Magnesium alloy and is anticorrosive and durable. It is dust proof and designed to last many years.

## At a glance

A use-case for the **Dynamo 4810** battery would be **4000W** of throughput for **2.5 hours** (for example load shedding stages 1-5) and recharging in **less than 2 hours**. Another use-case would be **2500W** of throughput for **4 hours** (for example load shedding stage 6+), also recharging in **less than 2 hours**. For the **Dynamo 4815**, the system is capable of **6000W** of throughput for **2.5 hours** or **3750W** for **4 hours**, with both scenarios ready to go again in **less than 2 hours**.

Used in this way, the batteries will last for more than **6000 cycles**. They have a **10-year warranty** (manufacturer-guaranteed grade-A barcoded cells).



## Full Specifications (4810 and 4815)

Nominal Capacity	200Ah/300Ah
Nominal Voltage	48V 51.2V)
Electricity(kWh)	10.24kWh/15.36kWh
<b>Input</b>	
Full Charge Voltage	56V-60V
Maximum Charging Voltage	90V
Input Voltage Range	60V-100V
Continuously Use Input Current	100A
Maximum Solar Panel Input Current	100A
<b>Output</b>	
Continuously Use Output Current	100A
Discharge Cut-off Voltage	38V-48V
Over-Discharge Delay Protection	1000ms
Short Circuit Protection Delay	300us
Short Circuit Protection Recovery	Disconnect load
Cell type	LiFePO4 Battery/LFP Barcoded Grade-A Cells
Storage temperature range	Short-Term -20°C-40°C (Within 1 month) Long-term 10°C-35°C (Within 1 year)
Operating temperature range	-15°C-60°C
Recommended temperature range	10°C-40°C
Self-Discharge (25°)	<3%/Month
Depth of discharge	>80%
C-rate Discharge	<0.8C
Cycle Life	>6000Time(<0.5C)
Certification Standards	UN38.3/CE/MSDS/DGM
Warranty	5 years on hardware, 10 years on cells
Communication	RS485
Product Size	1188±2×507±2×212±2mm
Packaging Size	668±2×645±2×713±2mm