



**LOADSHREDDER**

## Load Shredder 5000 Smart Battery

Specifications Document

## Introduction

The Load Shredder 5000 is one of our premium level batteries for home and business use. This is a 48-volt based system, perfectly matched to a larger energy requirement and is solar input ready. 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. The terminal binding posts are insulated and flame retardant, with the case finished off with insulated rubber pads for convenience.



## At a glance

A use-case for the **LS5000** battery would be **5000W** of throughput for **1 hour** (for example load shedding stages 1-5) and recharging in **less than 2 hours**. Another use-case would be **2500W** of throughput for **2 hours** (for example load shedding stage 6+), also recharging 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).

<p><b>LiFePO4 battery</b> Stable discharge, long cycle life, safe and environmental protection, high safety performance.</p> 	<p><b>Smart BMS (RS485)</b> Protect the battery, Prevent battery damage, Extend battery life.</p>  <table border="1" data-bbox="668 1621 983 1850"> <tr> <td> Imported components</td> <td> Comply with CE standard safety certification</td> </tr> <tr> <td> Separate driver modules</td> <td> Use insulation materials</td> </tr> </table>	 Imported components	 Comply with CE standard safety certification	 Separate driver modules	 Use insulation materials	<p><b>LCD display</b> Observe the power usage at any time.</p>  <p>Function Introduction</p> 
 Imported components	 Comply with CE standard safety certification					
 Separate driver modules	 Use insulation materials					

## Full Specifications (LS10000 and LS15000)

Nominal Capacity	100Ah
Nominal Voltage	48V 51.2V)
Electricity(kWh)	5.12kWh
<b>Input</b>	
Full Charge Voltage	57.6V-60V
Maximum Charging Voltage	60V
Input Voltage Range	60V-150V
Continuously Use Input Current	100A
Maximum Solar Panel Input Current	80A
<b>Output</b>	
Continuously Use Output Current	100A
Discharge Cut-off Voltage	40V-46V
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	461±2×250±2×521±2mm
Packaging Size	550±2×333±2×601±2mm