



## LBS-M Lithium Batteries Range

The LBS-M is the first of a new kind of battery range by Lithium Battery Solution. With emphasis on Lithium performances coupled with an innovative addition of a heating source, this product is the answer to your needs.

LBS-M modules are designed to be easily connected together to achieve greater specifications.



### LITHIUM POWERED

Compared to conventional batteries, lithium-ion batteries recharge faster, are more durable as they last more than 20 years and are maintenance-free.



### INNOVATIVE HEATING SOLUTION

This product is equipped with a heating film located under the batteries to allow charging at very low temperatures. The process of heating up the battery is automatically executed thanks to the connected charger and the monitoring system.



### PERFORMANT BMS

The LBS-M is equipped with some of the most performant BMS in the industry. Coupled with its numerous internal sensors, the system provides real-time data and according adjustments without any user input. Many options are available.



### FLEXIBLE & EVOLUTIVE SYSTEM

Designed to achieve any system size by connecting multiple LBS-M Modules to each other. Connections are made with soft connectors allowing safer use especially in vehicles.



### COMPACT & LIGHTWEIGHT

The LBS-M packs a very high power density. At equal performances, our system is 4 to 5 times lighter than any of our competitor's lead-acid/AGM battery while being one of the most compact lithium solution in the industry.

### THE IDEAL SOLUTION FOR :



Industrial



Commercial



Work trucks



Boats



Residential



RV



Van



Off-road



Solar

## ELECTRICAL CHARACTERISTICS

Items	Unit	LBS-M 2X 12.8/25.6 V 542/271 AH
Nominal voltage	[V]	12.8/25.6
Minimal operating voltage	[V]	8/16
Maximal operating voltage	[V]	14.6/29.2
Nominal capacity	[Ah]	271/542
Nominal energy	[kWh]	6.93
Group mode		1P4S
Number of cycles at 80% DOD		>3000
Volumetric energy density	[Wh/kg]	164
End of life residual capacity	[Ah]	218,4
Maximum continuous charge current	[A]	1 C
Maximum continuous discharge current	[A]	1 C
Maximum pulse discharge current (≤180s)	[A]	2 C
Maximum Depth of Discharge	[%]	80
Insulation requirements	[MΩ]	≥20
Module heating method		Heating film controlled by BMS
Module cooling method		Natural cooling
Warranty		8 years*

## MECHANICAL CHARACTERISTICS

Items	unit	LBS-M 2X 12.8/25.6 V 542/271 AH
Length	[mm][in]	337.5/674.5   13.28/26.56
With	[mm][in]	177.5/355   6.98/13.96
Height	[mm][in]	210.3   8.27
Weight	[kg][lbs]	50.4   111.11
Volume	[dm^3]	7.18

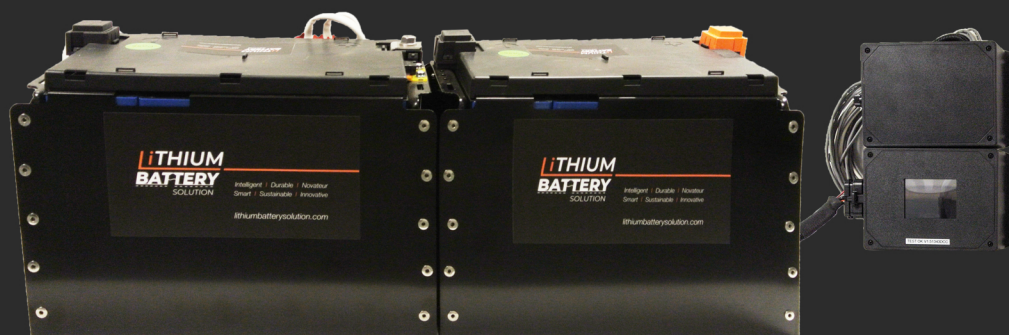
## CERTIFICATIONS



UN38.3

(may vary according to the model)

\*5 years + 3 years prorated



Comes with an included battery management system of BMS-SBMS0

**CONTACT US!**

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**iTHIUM**  
**BATTERY**  
SOLUTION CANADA

Designed in **Canada**