



Internal BMS - customizable



Active Balancing - extends life



External Panel - robust monitoring and control



Remote Bluetooth connection for status monitoring



Parallelization for greater capacity

Applications



LITHEN batteries are based on Lithium Ferrophosphate (LiFePO_4) chemistry and are made up of certified cells. We offer a unique solution designed to meet the needs of small-power recreational boats, providing extra safety and autonomy and with optimal watertightness and resistance to the environment for a long useful life. LITHEN batteries are guaranteed for 6,000 cycles, much higher than other chemistries, with greater operating margins, and constitute a clean and economical alternative to combustion engines.

LITHEN batteries have a high power density and include interesting additional features such as external screens with information on the battery status and Bluetooth connection through a mobile application, allowing simple, reliable, precise and intuitive monitoring.



GENERAL SPECIFICATIONS

Electrical characteristics

	LITHEM - S	LITHEN - M	LITHEN - L
Product Code	LITHEN-LFP-S48105-XXX	LITHEN-LFP-M48230-XXX	LITHEN-LFP-L96304-XXX
Nominal voltage	51V	51V	84V
Rated capacity	105Ah	230Ah	304Ah
Maximum/Minimum Voltage	57.6V /40V	57.6V / 40V	97.2V / 70.2V
Total energy	5376Wh	11776Wh	25536Wh
Rated Maximum Internal Impedance	<5.6mΩ	<5mΩ	<13.5mΩ
Maximum load voltage	57.6V	57.6V	93V
Recommended charging voltage	55V	55V	90V
Recommended charging current	25A	46A	61A
Maximum charging current	65A	115A	152A
Output voltage range	41.6V / 57.6V	41.6V / 57.6V	70.2V / 97.2V
Recommended discharge current	50A	115A	152A
Maximum discharge current	200A	230A	300A
Pulse discharge current	250A(30s)	460A (30s)	500A (30s)
Discharge cut-off voltage	41.6V	41.6V	70.2V
80% SOH cycles	4500 (0.5°C, 25°C, 80% depth of discharge) – improves with design conditions		

Mechanical characteristics

	LITHEM- S	LITHEN - M	LITHEN - L
Dimensions	270x280x700 mm	270x280x1250 mm	280x325x1680 mm
Weight	35 Kg	108 Kg	210 Kg
Transport grip point	Two side handles 237x80 mm		
Mounting orientation	Lid up		

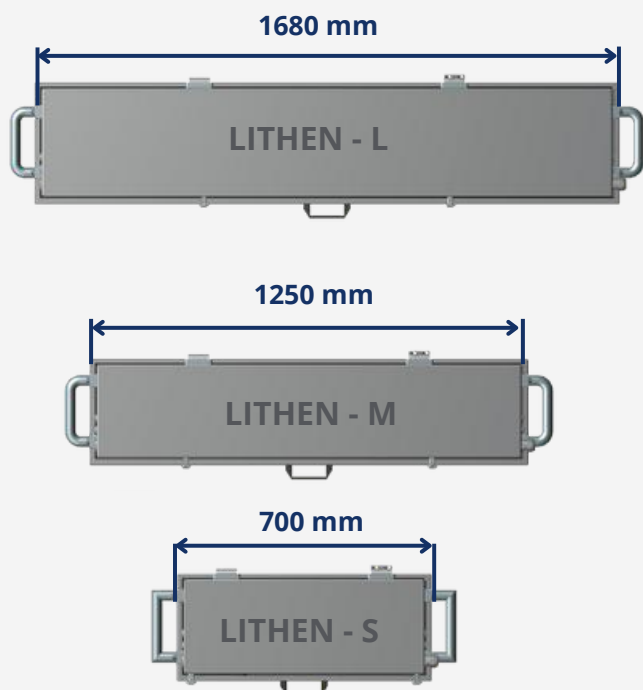
Environmental characteristics

Minimum and maximum temperatures during loading and unloading	-20 – 55°C
Minimum and maximum recommended loading/unloading temperatures	10 - 40 °C
Recommended maximum relative humidity	90%
Storage temperature (1 month)	0 - 45 °C
Storage temperature (6 months)	10 - 25 °C

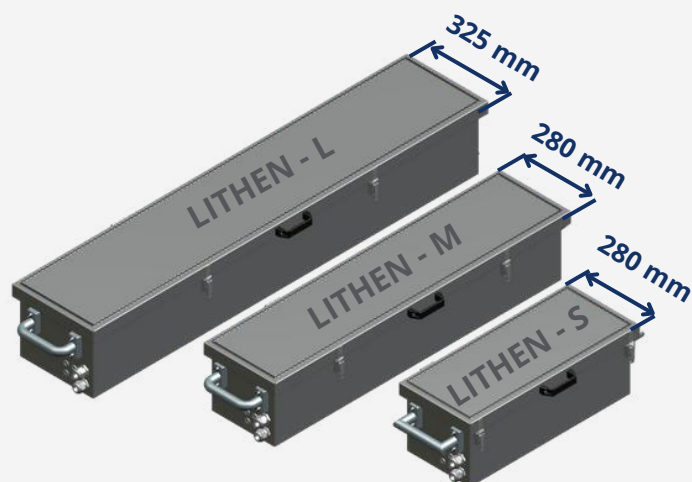


LITHEN DIMENSIONS

Upper view



Isometric view



Side view



Handle dimensions

