

INNOVATIVE LITHIUM BATTERY FOR BOATS AND YACHTS

BOS LE300 LITHIUM EXTENSION BATTERY PROVIDES A SECURE AND CAREFREE POWER SUPPLY FOR YOUR ELECTRONICAL BOAT EQUIPMENT. KEEP YOUR EXISTING LEAD ACID BATTERIES AND EXTEND YOUR SYSTEM WITH OUR INNOVATIVE LITHIUM (LIFEPO₄) HYBRID TECHNOLOGY.

INNOVATIVE AND HIGH-PERFORMANCE HYBRID BATTERY



The LE300 Lithium Extension Battery is no conventional Lithium Battery. With the help of its special Battery Management System, the LE300 is connected to any 12 V Lead Acid Battery and combines both Batteries to a high-performance Hybrid Battery. Through the connection, the Lead Acid Battery is kept fully charged, while the cycle-resistant Lithium Battery takes on most charging cycles and is preferentially discharged under load. The capacity and the performance of both Batteries are used optimally, so you can look forward to a better performance, more room and a longer life span of your Batteries.

VIBRATION-RESISTANT AND COLD-PROOF

The LE300 is perfectly adapted to the needs of boats and yachts. Through the E24 certification from the motor vehicle sector, the reliability and the vibration- & shock resistance are confirmed. This enables the LE300, to withstand even extreme conditions or vibrations in the boat permanently.

Contrary to pure Lithium-Battery solutions, cold temperatures are no problem for the LE300. Due to the integrated heating, the LE300 is heated with charging current before actual charging. Consequently, the system can be charged, even in extreme temperatures. The full power is available for temperatures until -10 °C.

LIGHT AND HANDY DESIGN

The LE300 weights only half of a lead acid battery with same capacity. Additionally, with its modular und handy design the system can be installed in all positions,

horizontally or vertically and fits perfectly into small gaps and corners.

LE300 USE CASE

"The upgrade of my Lead Acid Battery with two LE300 modules was a very good choice.

Thanks to the provided connection cables the installation was very easy. The LE300 Batteries connected with the Lead Acid Battery automatically and the LEDs showed, that the Battery is ready for use.

Under the bench seats was no space for a bigger supply battery. Now I have doubled the capacity and have enough energy for all loads, even without losing space."

Peter Reimann



Type: Sailing Catamaran

Name: Windzang

Sail surface: 50 m²

Length: 9.30 m

Width: 4.50 m

Loads: Navigation, radio, light, refrigerator and gas heating

Technology: 2x LE300 in parallel connected to AGM Battery 95 Ah

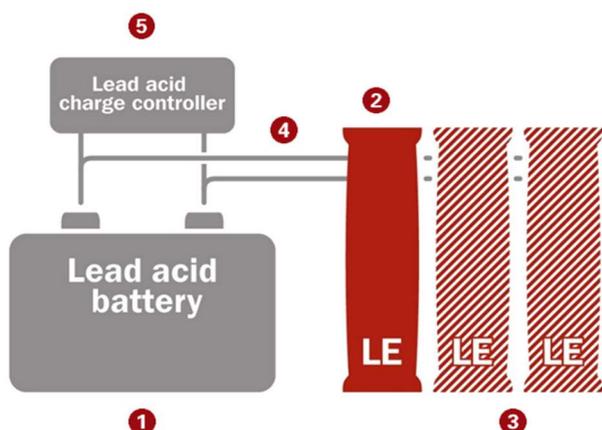
EXTEND EVERY LEAD ACID BATTERY WITH LIFEPO₄ HYBRID TECHNOLOGY

EASY MOUNTING – RISK-FREE COMMISSIONING

The LE300 is directly connected to the positive and negative terminal of the Lead Acid Battery. The system can be commissioned directly and easily. Every LE300 is a stand-alone unit, with all necessary protection features and integrated Battery Management. By parallel connection and easily plugging together the LE300 Modules, the desired capacity can be assorted. Existing standard chargers for Lead Acid Batteries with a constant voltage above 14,0 V or with the IUoU characterisitc can be used without problems. As soon as the Lead Acid Battery is charged, the LE300 detects the surplus energy and charges the Lithium Battery.



PRODUCT DESCRIPTION – LE300 LITHIUM EXTENSION BATTERY



1. Lead Acid Battery
2. LE300 Lithium Battery (each 12V, 25 Ah) with LED Display
3. Modular and scalable: Up to 24 LE300 can be connected to a 12 V and 24 V system.
4. LE300 and Lead Acid Battery are connected in parallel with each other.
5. An existing charge controller can be continued to use.

TECHNICAL EXAMPLES WITH FREQUENTLY USED BATTERY SIZES

	Standard Consumption	Small Drive	24V Consumption
Lead Acid Batteries	AGM Battery 95 Ah	AGM Battery 180 Ah	2x AGM Battery 95 Ah connected in series
LE300 Configuration	2x LE300 parallel	6x LE300 parallel	Per AGM Battery 2x LE300 parallel 24 V
Operating Voltage	12 V	12 V	24 V
Capacity Lead Acid Battery (70% DOD)	800 Wh	1,5 kWh	1,6 kWh
Capacity Lithium Battery (90% DOD)	600 Wh	1,8 kWh	1,2 kWh
Weight (AGM+LE)	26 + 7 kg	47 + 20 kg	2 x (26 + 7 kg)
Scope of use	For standard user: Almost same space as a Standard AGM Battery, but with double the capacity.	Small 12 V drives and external propulsion motors. Bigger Loads or Inverter up to 2000 W.	Example for 24 V application. The LE300 supports Lead Acid Batteries on 12 V level. 24/12 V Balancer recommended.