

Lithium-ion batteries
▶ **LiONFORCE TP200**



Energy. Endurance. Power.

► **LIONFORCE** Lithium-ion battery



Reliable. Efficient. Sustainable.

The modular TRIATHLON® lithium-ion battery is a powerful energy source that has been specifically designed for the requirements of modern industrial trucks.

Based on safe and long-lasting lithium-ion technology, this battery offers a number of advantages over conventional lead-acid batteries.

Thanks to its modular design, the battery can be equipped with different capacities: from 228 Ah to 912 Ah. This enables flexible use and easy integration into the most common industrial trucks.

In addition to fast and intermediate charging capability, the battery always provides the necessary constant power and is perfectly suited for light to medium-duty applications in forklifts, pallet trucks and other industrial trucks.

The modular lithium-ion battery is far superior to conventional lead-acid systems in terms of its low maintenance and user-friendliness.

During the development, we focused uncompromisingly on applications with a medium intensity of use. The **LIONFORCE TP200** series is therefore an excellent choice for many industrial applications and, in terms of life cycle costs, this battery type offers an outstanding value for money in the target applications.

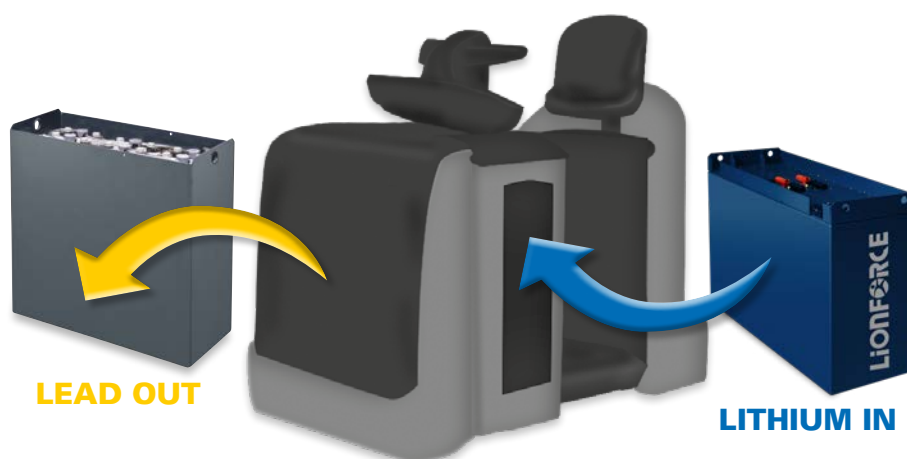
The modular lithium-ion battery is an investment in the future of your industrial truck fleet.

Take advantage of the benefits of state-of-the-art battery technology and rely on reliability, efficiency and sustainability.



Equipped with an intelligent battery management system (BMS), the battery continuously monitors its condition and optimizes performance to ensure maximum efficiency and safety.

The battery can be easily integrated into existing industrial trucks and enables a smooth transition from lead-acid to lithium-ion batteries.



► Designed to the point



Optimized for use and maintenance

Businesses such as industrial and logistics companies have a strong focus on cost management. With the **LiONFORCE TP200**, you can increase your efficiency and significantly reduce operating costs. With the battery, you get a reliable, application-optimized and maintenance-optimized energy source for your fleet.

The modular lithium-ion battery is optimized for applications with up to 2,200 operating hours per year in one to maximum two shifts.

It is perfectly suited for use at normal ambient temperatures between 0 °C / 32 °F and +40 °C / 104 °F.



Endurance, use and optimized



Advantages of LIONFORCE TP200

- ▶ **Intermediate charging** – without negative effects on battery life; offers high flexibility and reduces downtime
- ▶ **Fast charging** – fast charging cycles with up to 400A charging current; operational again in no time, less downtime and more productivity
- ▶ **Reduction in operating costs** – higher fleet availability with sustainably lower operating costs; less maintenance effort for you as a user
- ▶ **Zero emissions** – no charging gases, lower safety requirements and no need for special ventilation systems
- ▶ **Longevity** – significantly longer service life compared to lead-acid batteries; reduces replacement purchases, saves significant costs
- ▶ **Energy efficiency** – high efficiency means lower energy consumption, reducing operating costs and the ecological footprint
- ▶ **Environmentally friendly** – advanced battery technology results in more sustainable use; long service life, higher efficiency and low maintenance; minimizes environmental impact

performance for your conditions





SPECIFICATIONS OF THE BATTERY SYSTEM

- ▶ Charging rate of 0.7C, i.e. fully charged after approx. 1.5 hours
- ▶ Maximum charging current: 400 A
- ▶ Discharge current (constant/peak 30 s): 400 A / 1200 A
- ▶ Intensity of use: Up to 2200 machine hours per year
- ▶ Available capacity ranges: From 228 Ah to 912 Ah
- ▶ Voltage classes: 24 V, 36 V, 48 V and 80 V
- ▶ Temperature range: 0 °C / 32 °F to +40 °C / 104 °F

SPECIFICATIONS OF THE CHARGING SYSTEM

- ▶ Charging power: 1.4 to 36 kW
- ▶ Charge currents: 50 to 400 amperes
- ▶ Efficiency: up to 97 %
- ▶ No central charging station required
- ▶ No ventilation system necessary
- ▶ Compatible with the MD LOADmanagement charging management system
- ▶ Existing TRIATHLON® Li-ion chargers can continue to be used

FEATURES

- ▶ More flexibility through decentralized charging stations
- ▶ No risk of explosion and no odor nuisance from charging gases.
- ▶ Extended operating times and higher productivity thanks to fast and intermediate charging
- ▶ The TRIATHLON® battery system is optimized for maintenance – maintenance free design
- ▶ No need to change the battery
- ▶ No need for a replacement battery and components
- ▶ Ready to charge immediately: The TRIATHLON® battery remains unchanged in the vehicle during charging
- ▶ No need for central charging stations with elaborate room equipment such as ventilation systems and fire protection doors
- ▶ Very low operating costs combined with significant savings on electricity and water
- ▶ TCO – significantly reduced total costs
- ▶ Self-confident: Application errors virtually impossible
- ▶ Significantly reduced CO₂ footprint
- ▶ Different battery capacities and voltages can be charged on one charger





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