



**TRANSFLUID**  
trasmissioni industriali

# BATTERY PACK

Innovative energy system  
for marine and industrial  
applications



**drive with us**

# Transfluid's battery

Tranfluid's battery is the next-generation accumulator for marine and industrial applications.

It is based on lithium iron phosphate cells (LiFePO<sub>4</sub>), a technology that is safe and has the best performance/cost ratio, with integrated BMS to maintain the cells always equalized and efficient.

Tranfluid's battery gives great usage flexibility and **reduces the total ownership costs**, thanks to its 3000 cycles lifespan, being maintenance-free and allowing opportunity fast charging to increase the daily available energy.

The absence of emissions and the extended operating temperature range make Transfluid's battery perfectly suited for every workplace.

It is available in various sizes and capacities, and it has been **equipped with special features** for the best integration with Transfluid transmission system.

## **DNV-GL**

Type Approval order number: A0402415



## **Rapid charge, whenever you want**

- +50% charge level in only 30 minutes
- Complete charge in 2 hours
- Accepts partial charge and discharge
- No memory effect

## **Long lifespan**

- More than 3000 cycles

The lifespan is 3 times longer than traditional batteries, making the cost per cycle lower.

## **Maintenance-free**

Planned service is avoided, having no need of topping up or periodical checks. The conditions of the battery can be easily verified thanks to integrated diagnosis systems.

## **Suited for every application**

Having no gas emissions, these batteries are suited also for marine and many industrial applications.

## **No emissions**

No gas emissions during charge and discharge, so no special charging rooms are required. They may be charged at any place with maximum safety.

## **Energy saving**

Thanks to their high efficiency, up to +25% than lead batteries, energy costs and CO<sub>2</sub> emissions are reduced.

# Active and passive safety systems

Tranfluid's battery guarantee the maximum safety, in fact they integrate all the necessary protection systems for the safety of the users, of the machine and of the battery itself. They are equipped with several sensors to monitor the voltage and the temperature of every single cell, indicating and preventing potentially dangerous operating conditions such as overdischarge, overcharge, extreme temperatures. The output terminals are disconnected when the system is off or in case of failure, preventing the risk of accidental short circuits. Internal fuses protect the battery and the machine in case of failure during operation.

## Interfacing

Tranfluid's battery can work as a standalone accumulator, or it can interface through CAN-bus or Ethernet to other electronic devices such as MPCB, display, PLC, in order to show the data of the battery on a dashboard, or to implement an advanced management of the available energy.

## Standard models

| Type                         | 96V 100Ah                                    | 96V 200Ah | 96V 300Ah | 96V 400Ah |
|------------------------------|--|-----------|-----------|-----------|
| Energy (kWh)                 | 9,6  | 19,2      | 28.8      | 38,4      |
| Capacity Ah                  | 100  | 200       | 300       | 400       |
| Voltage                      | 96V Nominal - 115,5V Max - 82,5V Min         |           |           |           |
| Continuous Charging (A)      | 50   | 100       | 150       | 200       |
| Pulse Charging (A) SOC < 80% | 100  | 200       | 300       | 400       |
| Continuous Discharging (A)   | 100  | 200       | 300       | 400       |
| Pulse Discharging (A)        | 200  | 400       | 600       | 800       |
| Operating Temperature        | 0 to +60°C / -20 to +60°C with heating pack* |           |           |           |
| Weight (Kg)                  | 120  | 215       | 310       | 400       |
| Box                          | SS 316L                                      |           |           |           |
| Protection Class             | IP66   |           |           |           |

| Type                         | 288V 100Ah                                   | 288V 200Ah | 288V 300Ah | 288V 400Ah |
|------------------------------|--|------------|------------|------------|
| Energy (kWh)                 | 28,8   | 57,6       | 86.4       | 115,2      |
| Capacity Ah                  | 100  | 200        | 300        | 400        |
| Voltage                      | 288V Nominal - 346,5V Max - 243V Min         |            |            |            |
| Continuous Charging (A)      | 50   | 100        | 150        | 200        |
| Pulse Charging (A) SOC < 80% | 100  | 200        | 300        | 400        |
| Continuous Discharging (A)   | 100  | 200        | 300        | 400        |
| Pulse Discharging (A)        | 200  | 400        | 600        | 800        |
| Operating Temperature        | 0 to +60°C / -20 to +60°C with heating pack* |            |            |            |
| Weight (Kg)                  | 340  | 600        | 900        | 1200       |
| Box                          | SS 316L                                      |            |            |            |
| Protection Class             | IP66   |            |            |            |

\* Optional



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LOCAL DISTRIBUTOR

(Examples of different applications of k-LITHIUM batteries tecnology)



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