



**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 Tranfluid'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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