



**TRANSFLUID**  
trasmissioni industriali

## BATTERY PACK

Innovative energy system  
for marine 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

Product Code	Nominal Voltage	Capacity Ah	Energy kWh	Architecture	Cells Type	Connection Module	Weight of single box	Dimension single box	Number of box	Total Weight
KBP0063015	96V	100	9.6	Single Element	100Ah	-	120 kg	470,5x820h275	1	120 kg
KBP0063016	96V	200	19.2	Single Element	200Ah	-	215 kg	584,5x900h355	1	215 kg
KBS0063001	96V	300	28.8	Parallel Element	100Ah	MCR4 350x300h160	120 kg	470,5x820h275	3	360 kg
KBS0063002	96V	400	38.4	Parallel Element	200Ah	MCR4 350x300h160	215 kg	584,5x900h355	2	430 kg
KBS0063003	96V	600	57.6	Parallel Element	200Ah	MCR4 350x300h160	215 kg	584,5x900h355	3	645 kg
KBS0063004	96V	800	79.8	Parallel Element	200Ah	MCR4 350x300h160	215 kg	584,5x900h355	4	860 kg

Product Code	Nominal Voltage	Capacity Ah	Energy kWh	Architecture	Cells Type	Connection Module	Weight of single box	Dimension single box	Number of box	Total Weight
KBP0063017	288V	100	28.8	Series Element	100Ah	MCR4 350x300h160	120 kg	470,5x820h275	3	360 kg
KBP0063018	288V	200	57.6	Series Element	200Ah	MCR4 350x300h160	215 kg	584,5x900h355	3	645 kg
KBS0063005	288V	300	86.4	Parallel of series element	100Ah	MCR4 350x300h160	120 kg	470,5x820h275	9	1080 kg
KBS0063006	288V	400	115.2	Parallel of series element	200Ah	MCR4 350x300h160	215 kg	584,5x900h355	6	1290 kg
KBS0063007	288V	600	172.8	Parallel of series element	200Ah	MCR4 350x300h160	215 kg	584,5x900h355	9	1935 kg
KBS0063008	288V	800	230.4	Parallel of series element	200Ah	MCR4 350x300h160	215 kg	584,5x900h355	12	2580 kg



(Examples of different applications of Transfluid's batteries technology)

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