



TRANSFLUID
industrial & marine

BATTERY PACK

Innovative energy system
for marine applications



drive with us

Transfluid's battery

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

It is based on lithium iron phosphate cells (LiFePO₄), a technology that is safe and has the best performance/cost ratio, with integrated BMS to maintain the cells always equalized and efficient.

Transfluid'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



Interfacing

Transfluid'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.

Suited for every application

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

Battery LiFePO₄

It's based on lithium iron phosphate cells (LiFePO₄), a technology that is safe and has the best performance/cost ratio, with integrated BMS to maintain the cells always equalized and efficient. Box is stainless steel IP67.

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

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

Charger and discharger

- Continuous charging (A) 0.5 C
- Pulse charging (A) SOC < 80% 1 C
- Continuous Discharging (A) 1 C
- Pulse Discharging (A) 2C

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.

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 CO₂ emissions are reduced.

GENERAL SPECIFICATIONS

Capacity Ah	Contin. discharge A	Pulse discharger A	Continuous charge A	Pulse charge A	Operating Temperature °C	Box Material	Protection class
100	100	200	50	100	0/60 (-20/60 optional)	SS316	IP66
200	200	400	100	200			
300	300	600	150	300			
400	400	800	200	400			
600	600	1200	300	600			
800	800	1600	400	800			

51.2V

Capacity Ah	Energy kWh	Architecture	Dimension Single Box	Number Of Box	Total Weight
100	5.1	Single Element	300x788 h300	1	75 kg
200	10.3	Single Element	388x700 h330	1	125 kg
300	15.4	Single Element	610x950 h300	1	190 kg
400	20.5	Single Element	780x700 h330	1	246 kg
600	30.8	Parallel Element	388x700 h330	3	370 kg
800	41	Parallel Element	388x700 h330	4	430 kg



96V

Capacity Ah	Energy kWh	Architecture	Dimension Single Box	Number Of Box	Total Weight
100	9.6	Single Element	470x850 h275	1	130 kg
200	19.2	Single Element	585x900 h355	1	220 kg
300	28.8	Parallel Element	470x850 h275	3	390 kg
400	38.4	Parallel Element	585x900 h355	2	440 kg
600	57.6	Parallel Element	585x900 h355	3	660 kg
800	76.8	Parallel Element	585x900 h355	4	880 kg

153.6V

Capacity Ah	Energy kWh	Architecture	Dimension Single Box	Number Of Box	Total Weight
100	15.4	Single Element	650x900 h300	1	190 kg
200	30.8	Series Element	388x700 h330	3	375 kg
300	46.1	Series Element	610x950 h300	3	570 kg
400	61.4	Series Element	780x700 h330	3	738 kg
600	92.2	Series+Parallel Element	610x950 h300	6	1140 kg
800	122.9	Series+Parallel Element	780x700 h330	6	1476 kg

288V

Capacity Ah	Energy kWh	Architecture	Dimension Single Box	Number Of Box	Total Weight
100	28.8	Series Element	470x850 h275	3	390 kg
200	57.6	Series Element	585x900 h355	3	660 kg
300	86.4	Series+Parallel Element	470x850 h275	6	780 kg
400	115.2	Series+Parallel Element	585x900 h355	6	1320 kg
600	172.8	Series+Parallel Element	585x900 h355	9	1980 kg
800	230.4	Series+Parallel Element	585x900 h355	12	2640 kg

384V

Capacity Ah	Energy kWh	Architecture	Dimension Single Box	Number Of Box	Total Weight
100	38.4	Series Element	470x850 h275	4	520 kg
200	76.8	Series Element	585x900 h355	4	880 kg
300	115.2	Series+Parallel Element	470x850 h275	12	1560 kg
400	153.6	Series+Parallel Element	585x900 h355	8	1460 kg
600	230.4	Series+Parallel Element	585x900 h355	12	2640 kg
800	307.2	Series+Parallel Element	585x900 h355	16	3520 kg



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

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ITALY HEADQUARTER

TRANSFLUID S.p.A.
Via Guido Rossa, 4
21013 Gallarate (VA)
Ph. +39.0331.28421
Fax +39.0331.2842911
info@transfluid.it

CHINA

TRANSFLUID BEIJING TRADE CO.LTD
101300 Beijing
Ph. +86.1060442301-2
Fax +86.1060442305
tbtcinfo@transfluid.it

FRANCE

TRANSFLUID FRANCE s.a.r.l.
38110 Rochetoirin
Ph. +33.9.75635310
Fax +33.4.26007959
tffrance@transfluid.it

GERMANY

TRANSFLUID GERMANY GmbH
D-48529 Nordhorn
Ph. +49 5921.7288808
Fax +49 5921.7288809
tfgermany@transfluid.it

RUSSIA

TRANSFLUID OOO
143100 Moscow
Ph. +7.495.7782042
Mob. +7.926.8167357
tfrussia@transfluid.it

THE NETHERLANDS

TRANSFLUID B.V.
NL-2801 DA ,Gouda
Ph. +31 (0)85 4868530
sales.bellmarine@transfluid.it

U.S.A.

TRANSFLUID LLC
Auburn, GA 30011
Ph. +1.770.8221.777
Fax +1.770.8221.774
tfusa@transfluid.it

LOCAL DISTRIBUTOR



www.transfluid.eu
www.buy-transfluid.com

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