

TAB LITHIUM-ION BATTERIES-SYSTEMS



ECOLOGY & PLANET

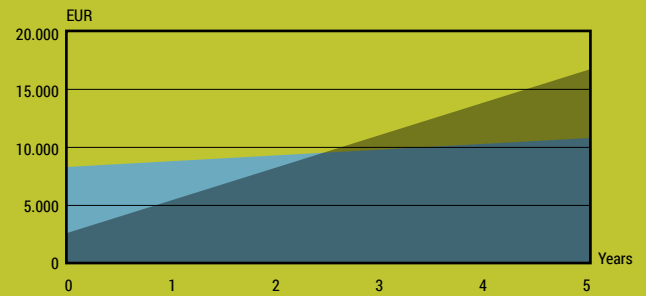
- TAB Lithium-ion batteries are designed for a sustainable future of our planet
- No liquid acids in case of accidents
- Smaller CO₂ footprint
- Better energy efficiency due to lower charging losses

ADVANTAGES

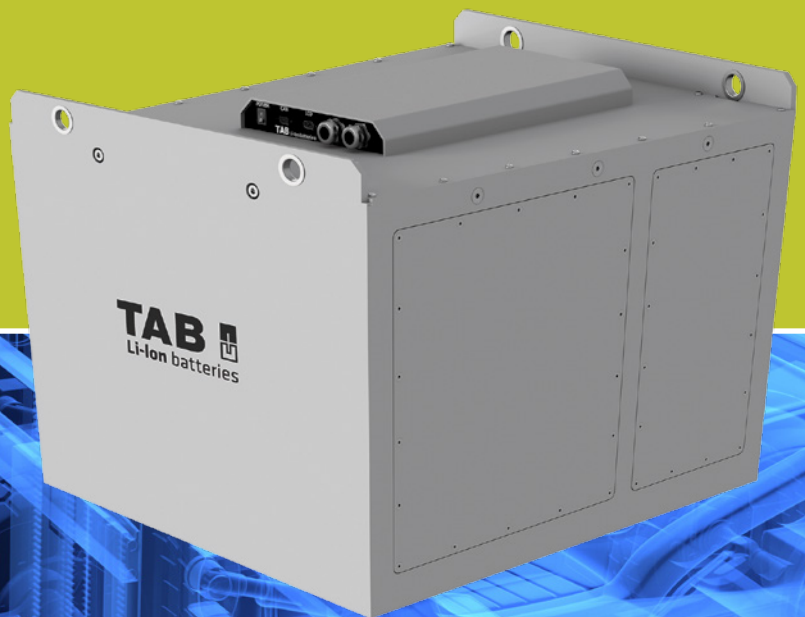
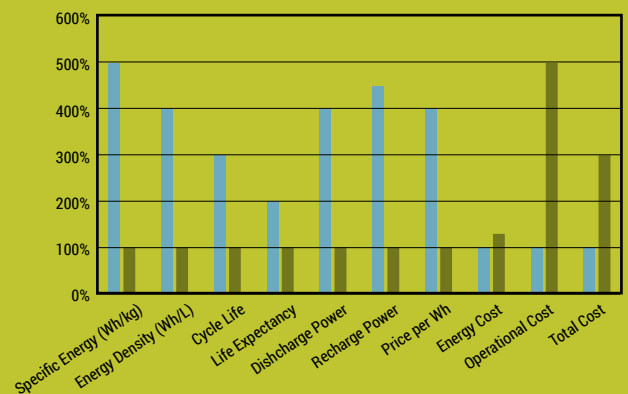
- No need for central charging station
- More flexibility to decentralized charging stations (in case with onboard charger)
- No explosion hazard and no odours due to gassing
- Longer operating terms and higher productivity due to fast and opportunity charging
- The TAB Li-Ion battery system is absolutely maintenance free
- No need for security distance to charging facilities - opens new possibilities when planning site layout

LITHIUM-ION
LEAD-ACID

Lithium-ion vs. Lead-acid battery Total Cost



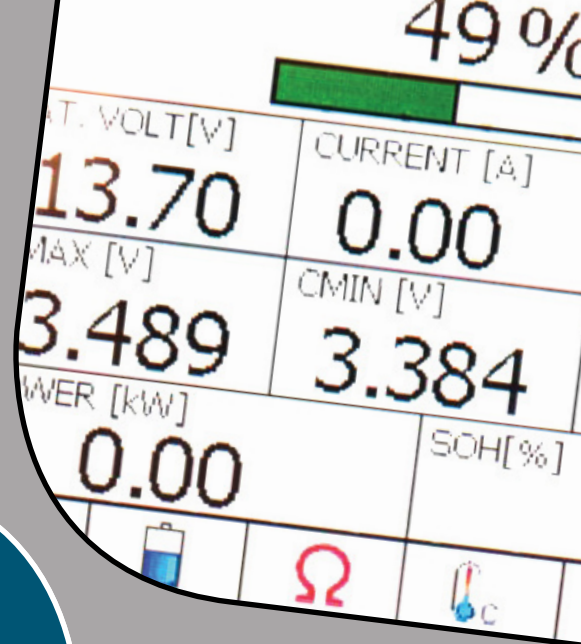
Lithium-ion vs. Lead-acid battery technology



TAB 
Li-ion batteries

TAB INTELLIGENT BATTERY MANAGEMENT WITH LCD-TFT MONITORING

- MOTORING
- CONTROL
- BALANCING
- PROGNOSTICS
- PROTECTION
- COMMUNICATION



TAB SERVICE SOFTWARE

- Real time data logging
- Communication via Can Bus
- Show warning/error/alarm

LONGER OPERATING TIMES

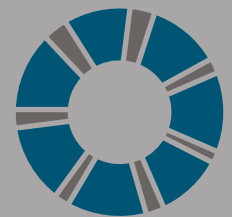
- Opportunity charging possible at any time
- High-efficiency chargers
- More capacity duo to better energy density

ECONOMY

- 30% reduced total cost
- No need to invest in central battery rooms with ventilation and extraction systems
- Long life time
- Low self-discharge

BATTERY SYSTEM SPECIFICATION

PRODUCT SOLUTION	Li-Ion
TEHNOLOGY	LiFePO4
VOLTAGE RANGE	12V-80V
CAPACITY RANGE	100Ah to 1000Ah
DESIGN LIFE (Cycle DOD 80%)	2500+
OPERATION TEMPERATURE	-10/+55 °C
CHARGING TEMPERATURE	0/+40 °C
CHARGING TIME	2h-Fast Charging , 4h-Normal Charging
PROTECTION INDEX	IP54 (IP67 optional)
BATTERY DIMENSION	DIN, BS, Additional Weighted, Customized
BATTERY CHARGER	TAB Li-Ion Charger
BATTERY MANAGEMENT SYSTEM	Integrated TAB BMS, (Data Logger Optional)
COMMUNICATION	CAN, RS485, Customized
STANDARDS/CERTIFICATES	IEC 62133-2, IEC 62619, ISO 12405-2, ISO 9001, ...



LITHIUM-ION BATTERY
 Operating time approx. 21-22 h
 Fast/Opportunity charging time approx. 2-3 h



LEAD-ACID BATTERY
 Operating time approx. 8 h
 Charging time/rest periods approx. 8 h

TAB

Li-Ion batteries

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