TAB
Li-ion batteries

e.storage

C&I

TAB – POWERING THE FUTURE WITH INNOVATION & RELIABILITY

With over **60 years** of expertise, **TAB is a globally recognized leader in energy storage solutions,** specializing in high-performance lead-acid and lithium-ion batteries.

Worldwide known for our durability, innovation and performance, TAB provides battery solutions for a wide range of applications including automotive, commercial and industrial vehicles, as well as advanced Energy Storage Systems.

With **1,700+ employees**, operations in **12+ countries**, and **4 advanced manufacturing facilities**, **TAB** stands among **Europe's top battery manufacturers**.

Our lithium-ion manufacturing plant offers a **1GWh/year** production capacity. Powered by **LFP battery technology**, we drive the next generation of energy storage solutions.

With its expertise, TAB is committed to **contributing to the green transition**. Our innovative Battery Energy Storage Systems boost **energy independence** and accelerate the shift toward a more **sustainable, low-carbon future**.

From manufacturing and global distribution to expert after-sales service, **TAB is your trusted partner in energy solutions**.

TAB E.STORAGE
HIGH VOLTAGE SOLUTIONS

Reliable, efficient, and scalable—TAB's **high-voltage energy storage solutions** leverage **premium LFP technology** for **Commercial and Industrial applications**. Designed for **maximum safety, long lifespan, and high performance**, our systems ensure **seamless energy management and optimized energy storage**.

Usage

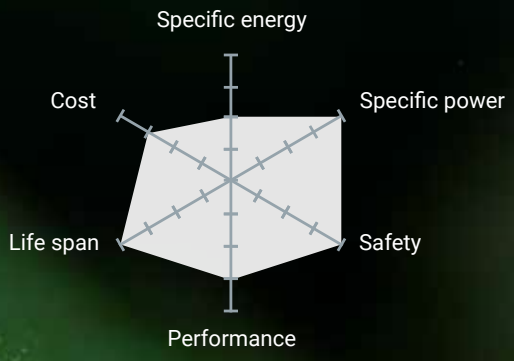
- Peak shaving to avoid high peak loads
- Optimization of self-consumption
- Energy trading
- Emergency power supply
- Grid services

TECHONOLGY

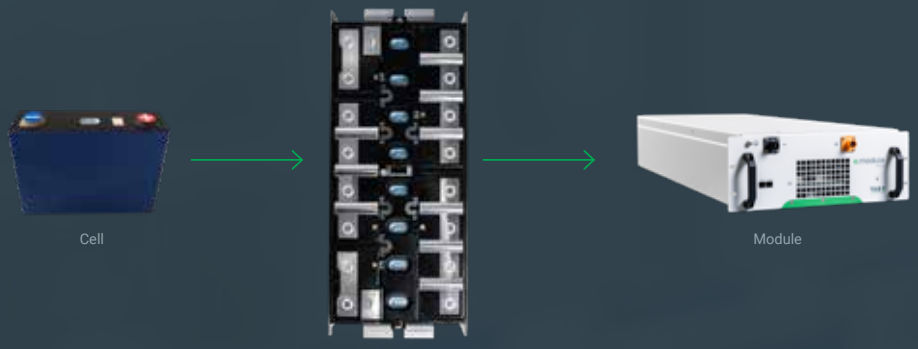
LiFePO4

LFP – LITHIUM IRON PHOSPHATE (LiFePO4)

- Good thermal stability
- Long cycle life
- High power rating
- Safe



TAB e.module H10.2



TAB e.module H10.2 with its modular design concept and easy installation is an ideal solution for high voltage storage applications.

Safety

- LFP (lithium iron phosphate) cells enable highest safety

Modular design

- Can be used for applications ranging from 48V up to 1000V
- Flexible paralleling to adapt to different project sizes
- Adaptable precharge circuit

Compatibility

- Compatible with any inverter brand using CAN and Modbus communication

LiFePO4

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TAB e.module H10.2

SPECIFICATIONS

Basic Parameters	H10.2
Nominal Voltage (Vdc)	51.2
Nominal Capacity (Wh)	10240
Depth of Discharge (%)	97
Discharge Voltage (Vdc)	44.8
Charge Voltage (Vdc)	56.8
Charge/Discharge Current (A)	140
Communication Port	CAN, RS485
Dimension (WxDxH, mm)	391x1015x165
Weight (kg)	110
Configuration (max. in 1 battery string)	18
Cooling Type	Air ventilation
Working Temperature (°C)	0 ~ 60 (Charge)
	-20 ~ 60 (Discharge)
Storage Temperature (°C)	-30 ~ 45 (up to 1 month)
	-20 ~ 35 (up to 6 month)*
Humidity (%)	0 ~ 95 (RH),**,***
Altitude (m)	≤3000
IP Rating of Enclosure	IP20
Certification	IEC62619/CE/UN38.3, IEC63056, IEC61000-6-2, IEC61000-6-3

* The battery must be charged at least once every 6 months
** Noncondensing conditions
*** Check the housing for possible rust areas – in case of rust replace

MASTER MODULE S920

One or more H10.2 modules connected in series must be integrated with a master module, which houses the proprietary Master BMS along with all necessary protections and components for seamless battery system operation.

Each master module can manage up to 18 units H10.2 modules, and multiple master modules can be connected in parallel.

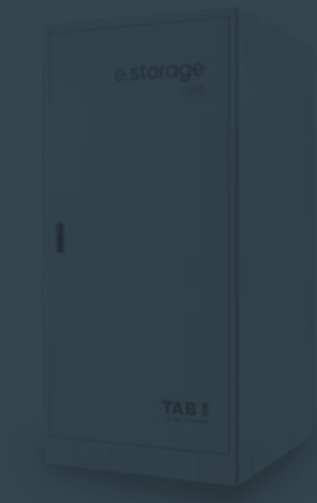
TAB e.storage S920

Basic Parameters	S920
Maximum Voltage (Vdc)	1200
Nominal Current (A)	140
Communication Protocol	CAN, RS485, TCP
Power Supply Port	C13
Dimension (WxDxH, mm)	442x550x165
Weight (kg)	15
Ambient Temperature (°C)	-20 ~ 60
Humidity (%)	20 ~ 95 (no condensation)
Altitude (m)	≤3000
IP Rating of Enclosure	IP20
Certification	CE/IEC61000

TAB e.storage C183

Engineered to meet the evolving demands of renewable energy integration, the TAB e.storage C183 Energy Storage System (ESS) delivers exceptional performance across a wide range of applications, including:

- **Peak Shaving** – Reduce energy costs by managing peak demand efficiently
- **Energy Arbitrage** – Maximize value by storing energy when prices are low and selling when prices rise
- **Ancillary Services** – Support grid stability with precise voltage and frequency regulation



The C183 ESS features a robust configuration of 18 e.modules H10.2 in series, managed by a powerful S920 master module, and is fully equipped with HVAC and advanced Fire Suppression Systems to ensure safe, reliable operation in any environment.

Main advantages:

- **European Excellence:** Designed, manufactured, and certified in Europe for top-tier quality and compliance.

- **Vertically Integrated System:** Includes proprietary Battery Management System (BMS) and local controller for seamless operation.

- **Flexible & Adaptable:**
  - › Compatible **with on-grid, off-grid, and hybrid inverters** - adjustable voltage and communication for any inverter on the market.
  - › Available in both **indoor and outdoor** versions to fit diverse installation needs.
  - › Customizable with various fire suppression and protection systems for enhanced safety.

- **Efficient Air Cooling:** Reduces CAPEX and specially OPEX – maintenance costs, and auxiliary power consumption.

- **High Performance:** Capable of reaching continuous 0.7C and peaks above 1C for optimized energy output.

- **Reliable Support:** Warranty and technical assistance provided directly from the EU. We are present in 12+ countries with a network of service partners covering all of Europe to ensure fast and efficient support.

SPECIFICATIONS

- Energy capacity up to 183kWh
- Integrated inverter power up to 100kW
- Integrated HVAC and fire detection system
- Remote monitoring
- Unlimited scalability
- IP Protection: IP55

Basic Parameters	C183
Nominal Voltage (Vdc)	921.6
Nominal Capacity (kWh)	183
Discharge Voltage (Vdc)	775
Charge Voltage (Vdc)	1040
Charge/Discharge Current (A)	140
Communication Port	CAN, RS485, TCP
Communication Protocol	Sunspec Modbus Compatible
Dimension (WxDxH, mm)	1556x1597x2351
Weight (kg)	2700
Ambient Temperature (°C)	-20 ~ 55
Altitude (m)	≤3000
IP Rating of Enclosure	IP55
Certification	CE/IEC62619/IEC63056/IEC61000 ISO13849 - Performance level C

TAB e.storage indoor solution

Modules in series	8	9	10	11	12	13
Nominal Voltage (Vdc)	409,6	460,8	512	563,2	614,4	665,6
Nominal Capacity (kWh)	81,6	91,8	102	112,2	122,4	132,6
Discharge Voltage (Vdc)	358,4	387	430	473	516	559
Charge Voltage (Vdc)	464	522	580	638	696	754
Charge/Discharge Current (A)	140A					
Communication port	CAN, RS485, TCP					
Communication Protocol	Sunspec Modbus Compatible					
Dimensions (WxDxH, cm)	110x120x130	110x120x130	110x120x130	110x120x200	110x120x200	110x120x200
Total Weight (kg)	1300	1400	1500	1600	1700	1800
Ambient temperature (°C)	0 ~ 45					
Humidity (%)	20 ~ 95 (no condensation)					
Altitude (m)	≤3000					
IP Rating	IP20					
Certification	CE/IEC62619/IEC63056/IEC61000, ISO13849 - Performance level C					

Modules in series	14	15	16	17	18
Nominal Voltage (V)	716,8	768	819,2	870,4	921,6
Nominal Capacity (kWh)	142,8	153	163,2	173,4	183,6
Discharge Voltage (V)	602	645	688	731	774
Charge Voltage (V)	812	870	928	986	1044
Charge/Discharge Current (A)	140A				
Communication port	CAN, RS485, TCP				
Communication Protocol	Sunspec Modbus Compatible				
Dimensions (WxDxH, cm)	110x120x200				
Total Weight (kg)	1900	2000	2100	2200	2300
Ambient temperature (°C)	0 ~ 45				
Humidity (%)	20 ~ 95 (no condensation)				
Altitude (m)	≤3000				
IP Rating	IP20				
Certification	CE/IEC62619/IEC63056/IEC61000, ISO13849 - Performance level C				

LiFePO4

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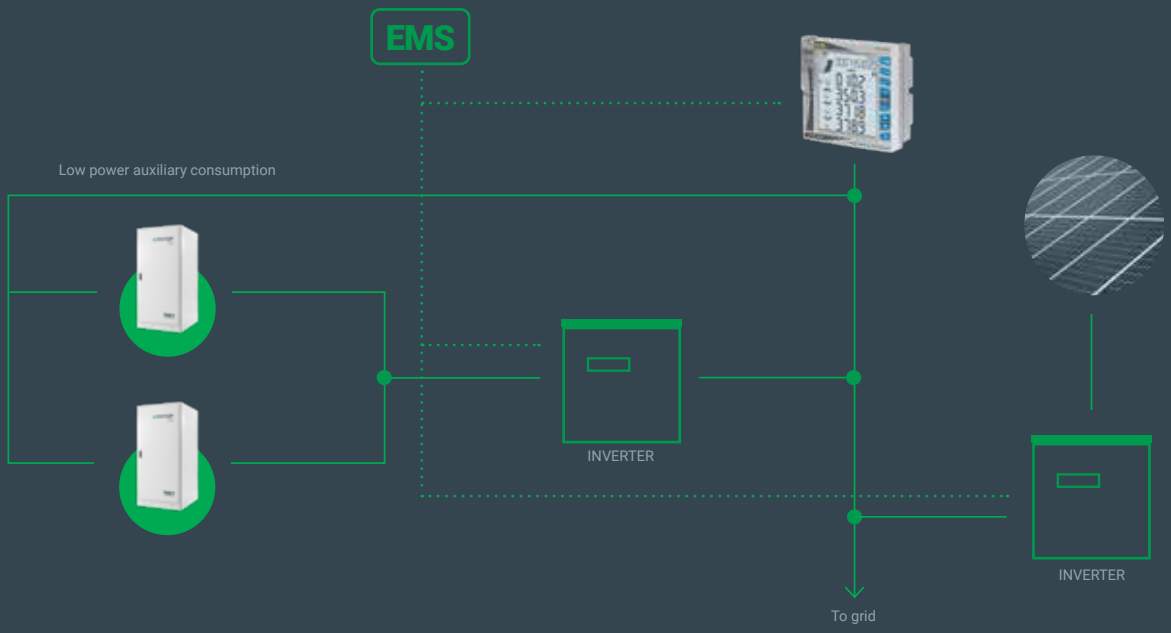
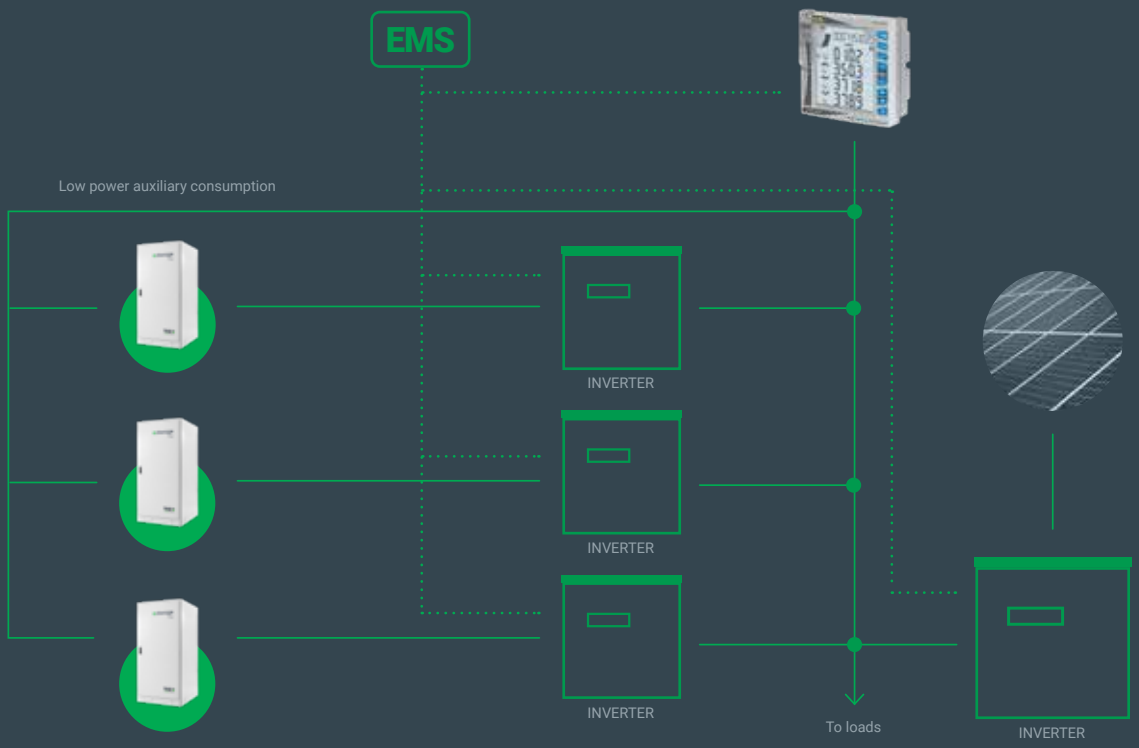
SPECIFICATIONS

Modules in series	5	6	7
Nominal Voltage (Vdc)	256	307.2	358.4
Nominal Capacity (kWh)	51	61.2	71.4
Discharge Voltage (Vdc)	224	268.8	313.6
Charge Voltage (Vdc)	284	340.8	397.6
Charge/Discharge Current (A)	140		
Communication Port	CAN, RS485, TCP		
Communication Protocol	Sunspec Modbus Compatible		
Dimension (WxDxH, mm)	505x1128x1661		
Cabinet Weight (kg)	100		
Ambient Temperature (°C)	0 ~ 45		
Humidity (%)	20 ~ 95 (no condensation)		
Altitude (m)	≤3000		
IP Rating of Enclosure	IP20		
Certification	CE/IEC62619/IEC63056/IEC61000 ISO13849 - Performance level C		

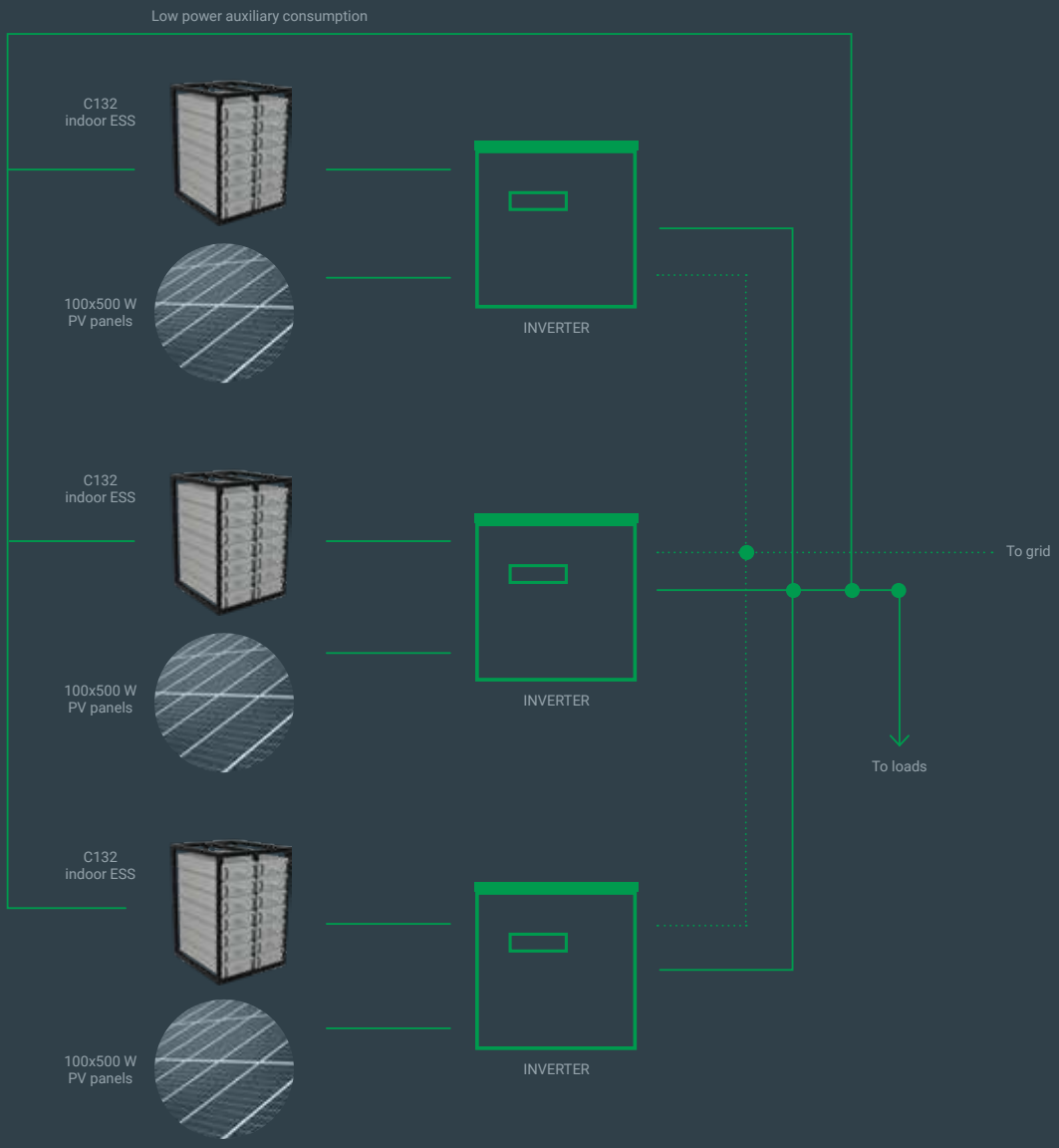
DC COUPLING OF BATTERIES

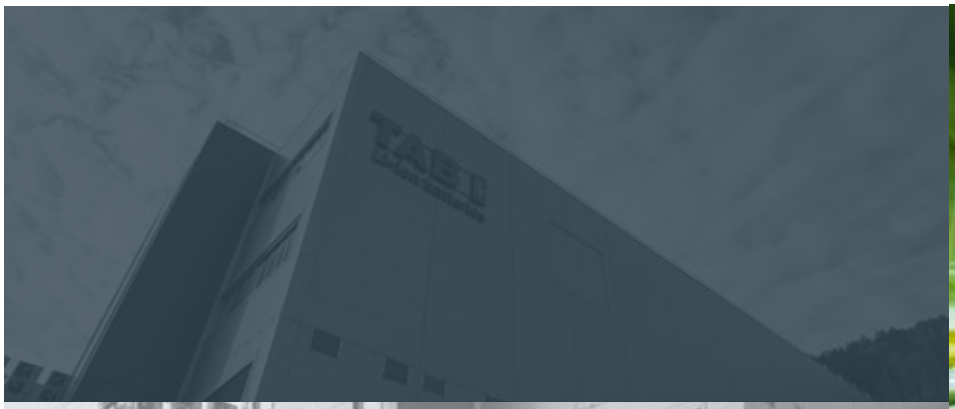


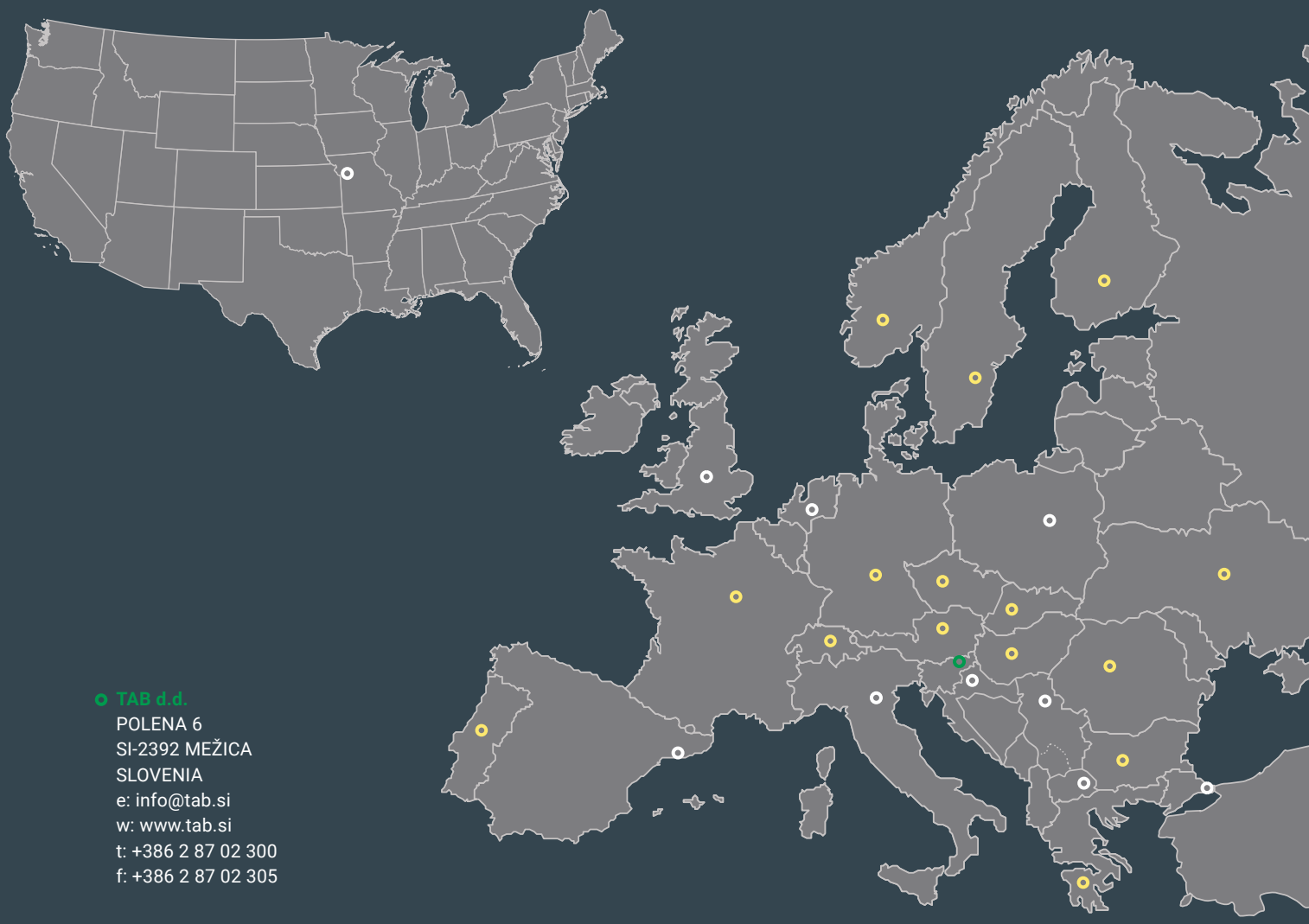
AC COUPLING OF BATTERIES



AC COUPLING OF HYBRID SYSTEMS







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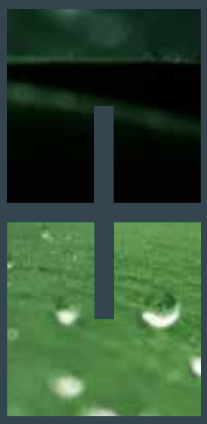
PURE ENERGY, BRIGHT FUTURE



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