

MUNICH ELECTRIFICATION

# BARCELONA SMART BATTERY SENSOR



*"Keep the EV safe and  
enable maximum performance."*

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# BARCELONA SMART BATTERY SENSOR



## COST DOWN

Highly integrated BMS solution cost-optimized for high-volume automotive series applications



## SAFE

Safety Concept to support disconnection devices that require short reaction times in case of overcurrent events



## INTEGRATION

The Barcelona Platform integrates all features required for a safe and robust battery design, from sensors to actuators



## MECHANICAL

Integrated Dual current sensor, isolation monitor and high voltage measurement which leads to a reduction of components



## COMPONENT REDUCTION

The close integration of features, minimizes system complexity by reducing the number of HW and SW components and interconnections



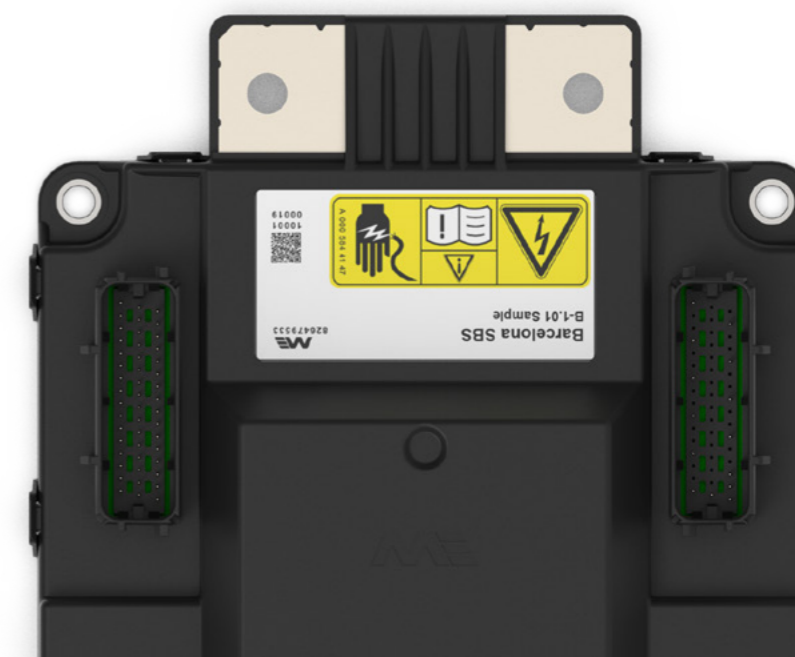
## VARIANT HANDLING

One SW fits all: no variant handling by ME necessary. The SBS can be vehicle and battery agnostic. Secure boot and UDS flash via CAN or CAN-FD

## BARCELONA SBS



- Transforms the battery into a smart sensor device providing sensor data to the vehicle control unit
- Battery Management safety functions up to ASIL D
- Designed for automotive, CV and UTV applications
- Customer configurable software parameters available
- 500A of continuous current
- SOP planned for Q2/2025



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# ABOUT US

**CONNECTED MOBILITY AND CLEAN ENERGY STORAGE TECHNOLOGIES TO CREATE MEANINGFUL IMPACT ON EVERYONE'S LIFE.**

**COMBINING SILICON VALLEY'S SPIRIT, PACE AND AMBITION WITH GERMAN ENGINEERING EXCELLENCE, WE STRIVE TO BE A DISTINCTIVE LEAD SUPPLIER FOR THE ELECTRIFIED AUTOMOTIVE WORLD AND BEYOND.**



## GLOBAL CUSTOMER BASE:

Leading automotive OEMs and fast-growing e-mobility newcomers



## VERSATILE AND RELIABLE BMS

platforms for automotive series applications



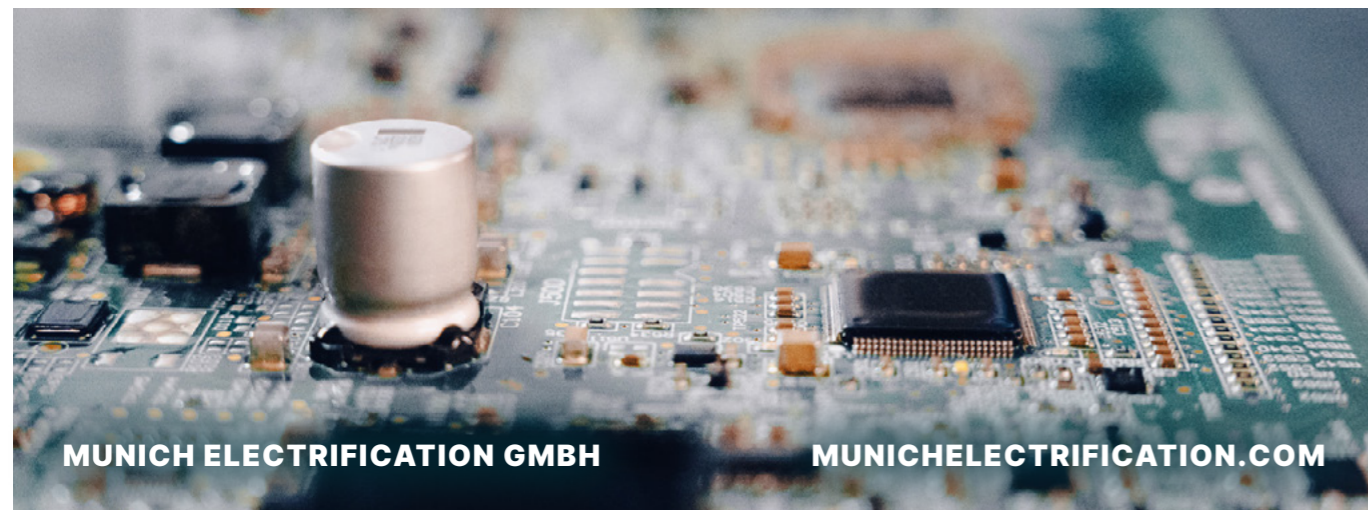
## FOUNDED IN 2014

Founded in 2014 by industry experts in the field of electric mobility, automotive batteries and electronics



## MANAGEMENT OWNED

Fully owned by founders, profitable and stable since the first year, constant organic growth through healthy cashflow



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# WHY TO WORK WITH US

# 01

## WE ARE

- Highly motivated, exceptional young engineers from our international team.
- We are devoted to fast-pace innovation & quality-focused agility to shape the future of electric vehicles. One of our key strengths is our electric powertrain system know-how.
- Our fast-growing staff has contributed in major positions to the world's best electric vehicles. By being fully familiar with the crucial requirements on the battery side we know what it takes to develop a successful EV powertrain.

# 02

## WHAT WE DO

- We develop and produce world-leading battery management systems regarding safety, features and cost.
- Our products stand out for function-integration, scalability, variant handling, space and weight. They are being used worldwide in multiple series production programs.
- Our fields of expertise also include the entire scope from embedded software development to model-based functions and advanced high-level algorithms for various cell chemistries (LFP, MNC, NCA).

# 03

## OUR VALUES

- We are technology-driven and committed to developing cutting edge products.
- We are devoted to design products and advancing technological solutions that reflect sustainability in every facet.
- By thinking like owners, our employees guarantee the strong customer focus and ensure the long-term success of ME.
- Cooperativeness, open communication and transparency constitute our ME work culture. Diversity and loyalty define our team spirit.