

MUNICH ELECTRIFICATION

# BOLOGNA BATTERY MANAGEMENT UNIT



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

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## MATURE

In production since Q1 2019. Field experience in various applications



## FLEXIBLE

Flexible BMS platform with versatile feature set. Different cell chemistries and module sizes are supported



## SAFE

Completely inhouse developed BMS platform. Patented ME safety concept. ISO26262 compliance up to ASIL C



## MULTI PACK CAPABILITY

Multi-string and multi-pack state control capability (up to 950V, up to 32 BMUs)



## CLEAN

SW architecture allows quick adaption of battery pack architecture and vehicle interface



## BOLOGNA+

Choose from a wide range of SW functionalities including J1779, J1939, J1979 and Thermal Event detection

## BOLOGNA BMU



- ISO26262 certification on product level
- Supports 12V and 24V supply voltage
- 400V/800V switching architecture supported
- Applications: PC, CV, LCV, marine, ESS, motorsports, busses
- Main/peripheral coordination logic on pack level
- Configuration of up to 8 contactors and 8 HV measurement inputs



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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



MUNICH ELECTRIFICATION GMBH

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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.