

MUNICH ELECTRIFICATION

SBSS -
SMART BATTERY SENSOR
STATIONARY FOR 1500 V



BARCELONA FAMILY

1500 V SMART BATTERY SENSOR (SBS)



DURABILITY

Maximum uptime due to over the air update capability and A/B swap (flashing during operation).
Validated for 20 years of operation



MECHANICAL DESIGN

Housed (IPxxB) and unhoused options available



ALGORITHMS

SoC, SoH and balancing algorithms are optimized for stationary use case for highest reliability and accuracy



COMPANION PRODUCTS

A third level container controller solution is offered as well for faster commissioning and even higher SoX accuracy





Supply:	12 V or 24 V
HV Measurement:	4
Contactor drivers:	4
Communication:	Ethernet & 2 CAN
Emergency stop:	HVIL & 1HV Isolated
Sensor inputs:	9
LED:	3
Dimensions:	217 × 226 × 33 mm



- Designed for 1500 V BESS utility scale applications
- State of the art non-chinese microcontrollers, allows up to date cyber security to UL5500, IEC 62443 SL2, CRA, NIS 2, etc.
- Battery Management safety functions up to ASIL D (ISO26262) and PL d (ISO 13849)
- Integrated isolation monitoring allows up to 100 strings in parallel in addition to dynamic master functionality
- Reinforced insulation HV/LV, Overvoltage Category 3 IEC 60664
- In series production, parts produced for more than 10 GWh of BESS



MUNICH ELECTRIFICATION

ABOUT US

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

BY 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 and commercial vehicle OEM as well as leading stationary storage integrators



VERSATILE AND RELIABLE BMS

Our BMS is used in > 35 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

[MUNICHELECTRIFICATION.COM](https://www.munich-electrification.com)

MUNICH ELECTRIFICATION

WHY TO WORK WITH US

01

WE ARE

- Highly motivated engineers from our international team.
- 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 and BESS.

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, NMC, 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.