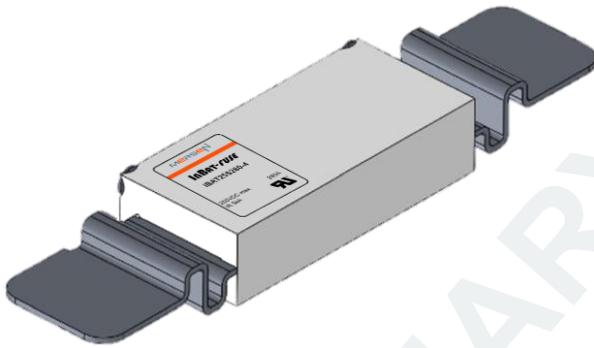


# InBAT-FUSE

250 VDC,  $L < 20\mu\text{H}$ , 100 – 500A

## BATTERY FUSES

INNER BATTERY MODULE SHORT-CIRCUIT PROTECTION DEVICE



**InBAT-FUSE** line-up is the latest addition to Mersen's growing DC Short-Circuit Protection Device portfolio, engineered to provide unsurpassed electrical safety for battery modules in today's electrical storage systems and applications.

**InBAT-FUSE** line is designed to fulfill UN38.3 requirements for battery module short-circuit test and thermal runaway avoidance. This device provides electrical protection against short circuits caused by structural deformation of the batteries.

Mersen's state-of-the-art technology allows to protect all types of lithium-ion battery cells : cylindrical, prismatic and pouch.

Thanks to their laser welding compatible terminals, **InBAT-FUSE** are customizable to match every client's module stack assembly process. **InBAT-FUSE'** compact foot-print greatly enhances the ease of integration within battery modules.

## FEATURES & BENEFITS

- Designed for battery module applications
- Adapted to thermal and mechanical stress in battery module environment
- Ultra compact size
- Low power losses
- High cycling performance

## APPLICATIONS

- Battery module protection in electrical vehicles and stationary applications

## Approvals (on-going)

- Automotive qualification
- Manufactured under ITAF16949/VDA6.3 quality system for compliance with automotive requirements
- RoHS compliant
- REACH declaration available upon request



### Generic Specifications

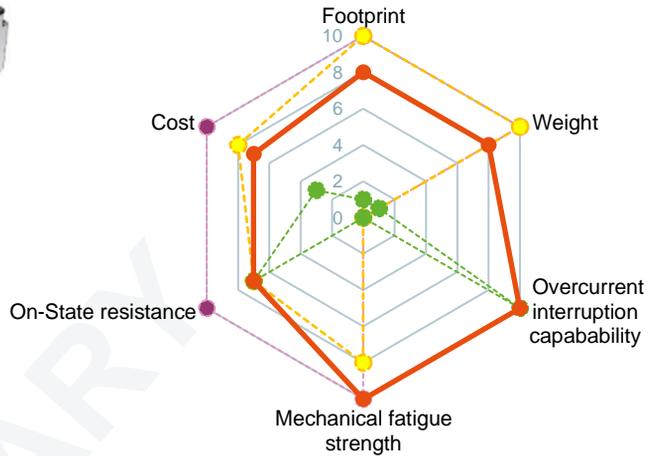
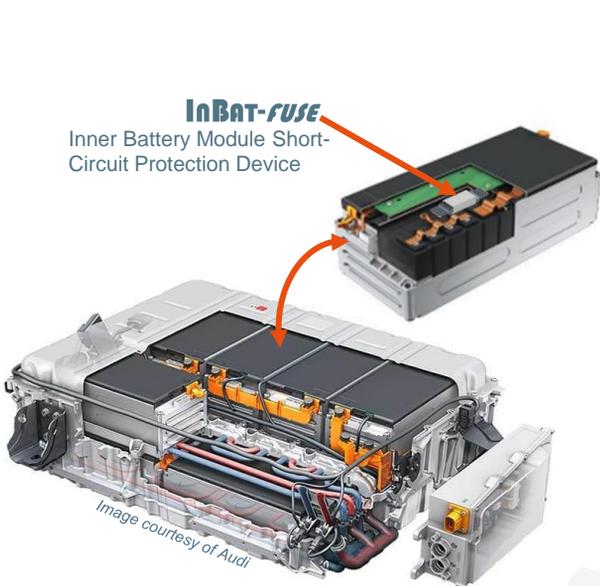
*For adaptation & customization, please contact Mersen technical support*

Rated DC Voltage $U_N$	250 VDC
Current Range $I_N$	100 – 500 A
I.R (DC) @ $L/R \leq 5\text{ms}$	Up to 7 kA
Minimum breaking capacity (MBC):	3x $I_N$

# InBAT-FUSE

250 VDC,  $L < 20\mu\text{H}$ , 100 – 500A

## MAIN FEATURES



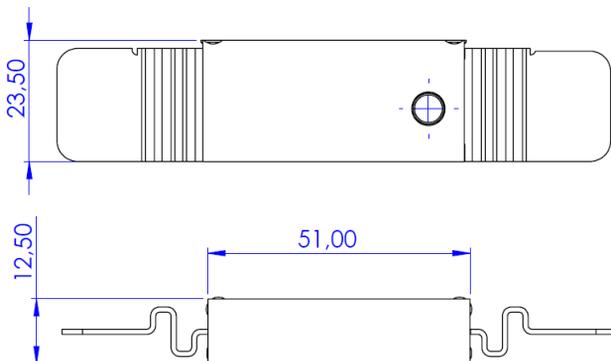
Comparison of inner module connection and protection solutions

## PRODUCT RANGE InBAT-FUSE

Catalog number	Rated Voltage DC	Rated Current $I_n$	Min. breaking Capacity (MBC)	Max. Interrupting current	
Standard values	250 V	280 A	1000 A	5 kA	For different electrical values or mechanical customization, please contact Mersen technical support
Example of possible customization	250 V	250 A	800 A	7 kA	

Consult MERSEN technical team for further information on environmental and mechanical customization capabilities: [ev-sales.emea@mersen.com](mailto:ev-sales.emea@mersen.com)

## DIMENSIONS (mm)



Preliminary label