

SOLUTIONS FOR BATTERY MANAGEMENT SYSTEMS (BMS)



INTRODUCTION

Isabellenhütte components have powered pioneering breakthroughs in shunt technology since their introduction in 1987. In addition to in-house R&D and a 500-year tradition of producing precision resistance alloys, our long experience guarantees the highest accuracy and flexibility in the development and production of surface-mounted devices and BMS shunts.

We supply excellent products for high-precision current measurement-particular suited to the requirements of BMS applications within the automotive industry. We continue to lead the industry in quality-a critical factor as vehicle manufacturers seek to improve the range and performance of their EVs, and other industries continue to evolve.

OFF-THE-SHELF & CUSTOMIZED SOLUTIONS

Standard Busbar Shunt Portfolio				
	BAS	BAX	кум	BVE
Size in mm	84 x 20	84 x 36	35 x 15.5	15 x 7.75
Power rating in W	36	50	10	10
TCR in ppm/K (20°C-60°C)	50	50	50	50
Continious current in A	925	1500	315	315
OPTIONS				
Pins / pressed in or welded	х	х	х	
РСВА	х	х	х	
200µohm	х			х
100µohm	х		х	х
50µohm	х		х	
35µohm	х			
20µohm		х		
5µohm		х		

Available Integration Levels



We offer a standard BMS shunt portfolio as well as provide tailor-made shunts for customer-specific project requirements. Clients are guided through the entire process to design a shunt perfectly suited for their BMS applications.

All of the following parameters may be customized:

- Resistance values and tolerances •
- Geometry and dimensions length, width, thickness, hole placements, etc. •
- Surface plating — tin, nickel, partial tinning, etc.
- TCR optimization, data matrix code on shunt with TCR curve •
- Sensor connections e.g. pins, PCB with connector, etc.
- Current connection, bolts, threaded posts, etc.

Expect more from Isabellenhütte

Packing more electronics into every vehicle is a daily challenge. Whether you need to drive performance in traditional vehicles or push the boundaries of electrification for all types of vehicles, Isabellenhütte helps you do more-in less space too! We combine 500 years of metallurgical excellence with next-gen engineering. "EXPECT MORE" from us at every turn & see how better quality & precision can take your projects further.

