HIGH-CURRENT SENSING SOLUTIONS
FOR ALL TYPES OF ELECTRIC VEHICLES
We have applications in some of the most popular and hard-working vehicles all over the world including commercial trucking, mining, and agriculture in addition to automotive. Our engineers and applications specialists go the extra mile to make sure all your high-current sensing needs are met.

**Designing a Better BDU/PDU**

Next-gen applications in EV and charging infrastructure need to:

- Deal with high current levels
- Support auxiliary AC systems like drives or refrigeration
- Accommodate increased battery capacities
- Charge faster, to match market demands

All of this means being 100% certain of your operational parameters (current, voltage, temperature), while finding new ways to put more performance into tight spaces and safe, economical designs.

**A Better Sensor Starts with Better Alloys.**

We’ve been making our own for 500 years. Our precision alloys are manufactured to comply with the strictest tolerances and satisfy all national and international standards. This results in an exceptionally high level of quality that is renowned in the industry.

These alloys are used in many areas of electronics and electrical engineering and are supplied in many different forms and types. Our alloys MANGANIN®, ZERANIN®, ISAHM® and NOVENTIN® are homogenous solid-solution alloys that are annealed and stabilized in the primary thermodynamic state—guaranteeing stability values in the ppm range per annum.

It is these exceptional materials that are at the heart of our sensing products.
A COMPLETE RANGE OF HIGH-CURRENT SENSING SOLUTIONS...

Easy to specify...
Enter an existing part number from any manufacturer. We'll show you the comparable Isabellenhütte solution!
Enter your specification parameters... for resistance, wattage, and package size. You'll see a full list of Isabellenhütte components that fit your spec!

www.isabellenhuetteusa.com/finder

Easy to order...
Phone: (508) 673 2900
Email: sales@isabellenhuetteusa.com

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### ANALOG SOLUTIONS

<table>
<thead>
<tr>
<th>INTERFACE</th>
<th>BAS/BAX/BAN</th>
<th>BAV</th>
<th>BSS/BSX/BSN</th>
<th>ISH</th>
<th>IPC</th>
<th>ICD</th>
<th>IVT 3.0 base</th>
<th>IVT 3.0 pro</th>
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<tbody>
<tr>
<td><strong>CURRENT RANGE</strong></td>
<td>100-200A</td>
<td>600-1000A</td>
<td>100-200A</td>
<td>100A</td>
<td>220-500A</td>
<td>100A</td>
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<td>100A</td>
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<td><strong>TEMPERATURE RANGE</strong></td>
<td>-65° C to 170° C</td>
<td>-40°C to 150°C</td>
<td>-40°C to 105°C</td>
<td>-40°C to 85°C</td>
<td>-40°C to 125°C</td>
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<td>5% tolerance</td>
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<td><strong>MAIN FEATURES</strong></td>
<td>Resistance range 0.005 to 0.1mOhms</td>
<td>Laser welded press fit sense connections</td>
<td>NTC analog output, temperature compensation with printed values on label</td>
<td>Up to three current readings</td>
<td>NTC analog output</td>
<td>Dual-channel option</td>
<td>5V power supply</td>
<td>1.5kV galvanic isolation</td>
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### DIGITAL SOLUTIONS

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ISABELLENHÜTTE
You can expect more from us.
EXPECT MORE.

We believe that imagination and innovation are the fuel for forward progress. We are intensely focused on our customers and their challenges—always looking for new possibilities and ways to help them win. The crucial factor for our success as a technology leader is the concentration of a wide range of production steps and proprietary technologies in-house. Our vertically integrated value chain—and the continuous improvement of processes—are the basis of our outstanding technical and innovative capability.

HUNDREDS OF YEARS OF PRODUCT INNOVATION.
EIGHT GENERATIONS OF FAMILY-BASED LEADERSHIP.

Isabellenhütte USA is headquartered in Swansea MA and has developed an industry-wide reputation for providing high-quality products and unparalleled customer support. We are known worldwide in industries ranging from aerospace and medical to energy and automotive. 500 years ago, a simple copper smelter perfected techniques to serve a customer base. Today, Isabellenhütte is one of the world’s leading manufacturers of precision measurement systems, resistance, and thermo alloys as well as high power resistors. We call this journey “Innovation by tradition.” Isabellenhütte USA is a wholly owned subsidiary of Isabellenhütte Heusler GmbH KG, located in Dillenburg, Germany.