



**IMB** STROMVERSORGUNGS  
SYSTEME GMBH

Bender Class(y) Reunion at IMB

## Where residual current technology meets the IT system

The requirements for electrical systems are constantly becoming more demanding. In the process, the reliable power supply plays an especially central role in the field of energy supply in order to provide customers of power generators and suppliers with a continuous, reliable supply of power. For if a malfunction occurs, downtimes and production losses result in enormous costs. IMB Stromversorgungssysteme GmbH perfectly combines reliability and safety in its systems.



Founded more than 20 years ago by the managing director and owner, Mr Wilhelm Müller, IMB Stromversorgungssysteme GmbH focuses on the development and production of power supply units. This market requires precisely tailored, individually adapted power supplies for many tasks. Its well-engineered systems and user-friendly products that always offer innovative features have made the company one of the trend-setters on the market for power supply systems today.

### Recognised know-how

IMB has succeeded in establishing a great reputation in a broad range of industries with its philosophy. Whether it's the manufacturing industry, power supply companies, the manufacturers of regenerative power generation systems or companies in transportation engineering and many others - IMB is considered a reliable, competent partner both at home and internationally.

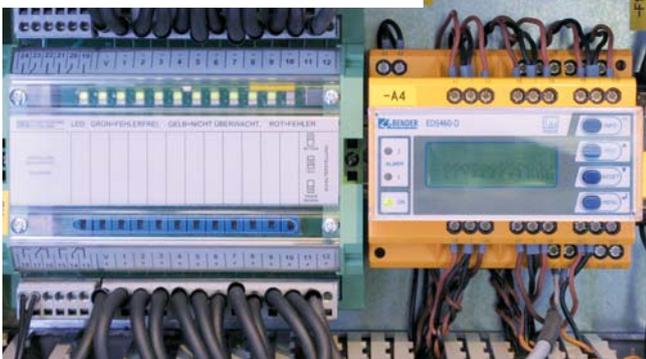
Its core business is the construction of extremely safe, highly available DC power supply systems and low-voltage systems. It is especially these power supply systems that hold a key position in the safety concept of every system.

### A strong team...

The construction of DC power supplies is automatically linked to the use of an insulated system (IT system). And that's why IMB has trusted in products from Bender as an addition its product range for almost twenty years. IMB's customers not only value the reliable, exact monitoring and signalling of insulation faults, they also increasingly use the equipment for insulation fault location (EDS). The fast location of faults during ongoing operation guarantees rapid troubleshooting and fault-free operation.



## TECHNICAL APPLICATION



Especially in the case of redundant DC power supply systems, the use of the EDS system represents consistently, carefully thought-through safety. Together with the EDS460, the ISOMETER® IRDH575 insulation monitoring device guarantees reliable, fast fault localisation and provides final customers with true added value.

... for increased safety at less expense

A DC system must always also be supplied by a grid connection. For this purpose, IMB offers complete NSHV\* systems up to 6,300 A. Of course, here as well the focus is on the safety concept. The monitoring of the central earthing point is only the start of the use of differential current monitoring technology (RCM technology) from Bender. The monitoring of outputs for critical consumers also enables state-oriented maintenance and helps tackle the testing tasks required according to German standard BGV A3.

Here the EDS system and RCM measurement are combined with the BMS bus from Bender, while the data points are passed on via the COM460IP gateway. This enables all measured values to be visualised on any PC integrated in the data network in a structured, clearly laid out manner and recorded for evaluations.

### A strong team

In 2012 the company relocated to a new building. IMB now exhibits the Bender technology as part of its solutions in a new, generously sized training room. The safety concept is explained at regularly conducted seminars for planners, operators and partners.

This example impressively demonstrates how systems can be operated more safely and efficiently by the combination of IMB know-how and the excellent cooperation with Bender. In addition, the increasingly demanding requirements for monitoring are also taken into account. The overall product stands for safety, reliability and user friendliness – teamwork at its best. ■

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