

R&D Electronics Newsletter (2014 Issue 13)

Welcome to our 13th issue of newsletter!

R&D Electronics is the **exclusive sales channel of TECHSEM**, which is a well-known Chinese developer and manufacturer of **diode / thyristor modules and capsules** with more than 48 years experience. In our well-structured B2B e-commerce-portal www.rd-ebusiness.com you can quickly find and order all products with the help of the integrated user-friendly search and ordering process. The three main product groups, which are **diode thyristor module, bridge rectifier and diode / thyristor in capsule packaging** (disc cells), are available in the shop. Except English and German language, our online-shop is now also available in **Portuguese**. Please visit our Portuguese web here: www.rd-ebusiness.com.br. In this issue we would like to introduce the detailed information about the three main product groups of TECHSEM and their application fields.

All of our newsletters are archived in our online-shop. More information is available under: www.rd-ebusiness.com

Yours faithfully
R&D Electronics Team

Product Overview and Applications

1. Diode- / Thyristor Module



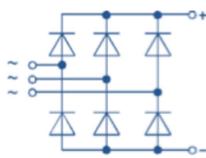
Housing: 223F3 412F3



The power modules made by TECHSEM include various circuit topologies such as single thyristor (MT Series), dual thyristors (MTC Series), single diode (MD Series), dual diodes (MDC Series) and diode thyristor (MFC Series). The output current range is from 20A to 1200A and the maximum reverse voltage range of the modules is up to 3600V. TECHSEM is one of the few power semiconductor manufacturers in the world, who master the technologies to produce the modules with such high current (1200A) and high voltage (3600V). It is also noteworthy that all TECHSEM modules are based on the proven pressure contact technology. This brings essential advantages with respect to reliability and service life of the power modules to the customers. See more information in our [Newsletter 4th issue](#). All TECHSEM diode / thyristor modules are CE / UL certified and meet also RoHS requirements.

They are offered in several dual and single device topologies for almost all phase control or rectifier applications. Application areas for our modules are e.g. Electrical Drives, as well as low voltage soft starters and general purpose power supplies. Only in 2013, more than 480,000 pieces TECHSEM power modules have been world widely used.

2. Bridge Rectifier



Housing: 218H5 / 219H5 221H5

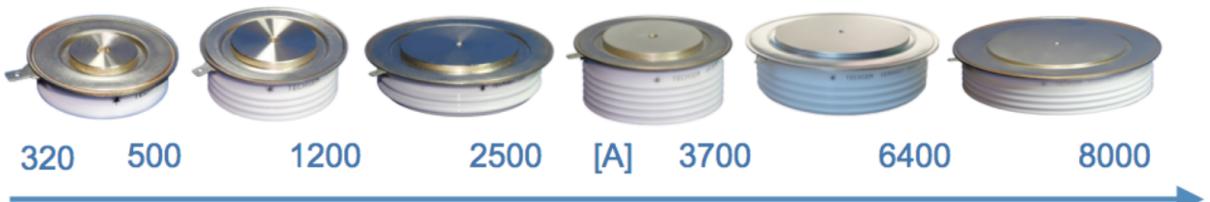


TECHSEM offers double-phase and three-phase bridge rectifiers. The output current range is from 50A to 200A and the maximum reverse voltage range of the rectifiers is from 600V up to 1800V. All the bridge rectifiers are CE certified and meet also RoHS requirements. The various housing types of the rectifiers ensure the excellent compatibility and substitutability of the products. These devices are mainly used in the fields like DC power supplies from medium up to high power range; for example, to operate the DC powered equipment from the three-phase alternating main current supply or to charge the batteries from the AC power. In 2013, the customers in the world in various applications have used total 140,000 pieces TECHSEM bridge rectifiers.

3. Diode- / Thyristor Capsule Devices (Disc Cells)



Housing: KT19 / ZT19 KT100 / ZT100



The power capsule devices made by TECHSEM include phase control thyristors (KP Series), fast turn-off thyristors (KK Series) and diode rectifiers (ZP Series) with chip diameters ranging from 0.5 inches to 5 inches. The output current range is 320A to 8000A, and the reverse voltage range of the capsule devices is from 200V to 7200V. Also for this reason, TECHSEM is one of the world leading companies that master the production technology for extremely high power devices. All the capsule devices are CE certified and meet 100% the RoHS requirements. These products are applied in the most varied fields of application in a power range of just a few kilowatts up to several gig watts. Hence without high power thyristors high voltage DC couplers would not be reality today, when two grids cannot be coupled by AC links. Last year, there were approx. 620,000 pieces of TECHSEM disc cells have been used worldwide.

Free Samples

You want to test our products? No problem. We provide now for certain types of products with limited quantities as free samples at your disposal. For the available products, you only need to pay for shipping costs from Hong Kong to your delivery address. Do not hesitate to register as customer in our shop and contact us for free samples of your choice: www.rd-ebusiness.com.

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