

R&D Electronics Newsletter (2015 Issue 2)

Welcome to our 2nd issue of newsletters in 2015!

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 online-shop is presented in **English, German and Portuguese** language.

In this issue we would like to introduce the differences between power modules and capsule devices (also called disc cells or press packs) in terms of product features and application fields. In addition, some unique features of TECHSEM power modules and capsules will be introduced as well.

Also this year R&D Electronics will exhibit together with TECHSEM at **PCIM fair** in Nuremberg. Please find detailed information in this newsletter.

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

Capsule Devices vs. Power Modules



General Product Features:

- Current from several hundred Ampere up to 8kA;
- Voltage from 200V up to 8kV;
- One silicon chip in one housing;
- Pressure bonded semiconductor;
- Electrically not isolated component;
- Hermetic housing with ceramic case ring;
- Single or double sided cooling;

General Product Features:

- Current from 20A up to 1.2kA;
- Voltage from several hundred Volt up to 4kV;
- One or more silicon chips in one housing;
- Solder bonded semiconductor for the current under 200A;
- Electrically isolated mounting base plate;
- Single sided cooling only;

Typical Applications:

- Medium voltage converters;
- High power rectifiers;
- High current power supplies;
- Pulsed power applications;
- Crowbar applications;

Typical Applications:

- Rectifier for drives applications;
- Rectifier for UPS;
- DC power supplies;
- Soft starters;
- Battery charges;



Unique Features of TECHSEM Capsules:

- Since more than 48 years in use;
- Market leader in China with 30% market share;
- More than 2,000 dis cells with various silicon chips and different current and voltage classes;
- Silicon chips manufactured by TECHSEM itself;
- Qualified for China National Science and Technology Development Projects;
- Used in the UPS for Chinese Satellite Launch Center
- Qualified by China Railway Ministry for railway applications;

Unique Features of TECHSEM Power Modules:

- Since more than 40 years in use;
- Market leader in China with 15% market share;
- Pressure contact for all power modules offers higher reliability and longer life-time;
- Reliability test with 20,000 power cycles;
- TECHSEM own chips used in all power modules;
- More than 3,000 power modules with various circuits and different current and voltage classes;
- Power modules with water cooling base plate;

In our online shop (www.rd-ebusiness.com) the detailed TECHSEM product information are available.

Visit us at our booth during the PCIM in Nuremberg

PCIM
EUROPE

Visit us at PCIM Europe:
From 19 - 21 May 2015 in Nuremberg, Germany,
Hall 9, Stand 9-429

We are looking forward to meeting you. For meeting arrangement please contact us via info@rd-ebusiness.com or by phone +852-3421-2216.

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