

## **R&D Electronics Newsletter (2015 Issue 6)**

Welcome to our 6th 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 this issue we would like to present a summary of TECHSEM product features and the customer benefits. In addition, it is a challenge for many users of power semiconductors to connect high voltage components in series. Using a practical example, we are introducing in this issue what support TECHSEM is doing for this purpose.

All of our newsletters have been achieved in our online shop. For more information please visit: www.rd-ebusiness.com

Yours faithfully

R&D Electronics Team

## **TECHSEM Product Features and Customer Benefits**

ustomer Benefits
asy buying, better quality assurance
afety, health and environment protected
ess procurement costs
gher reliability
gher Product Stability
onger lifetime, higher safety margin
ost savings by compacter design
ost savings by flexible design
ess costs due to more choices
ost savings by less internal efforts
ost savings by less product failures

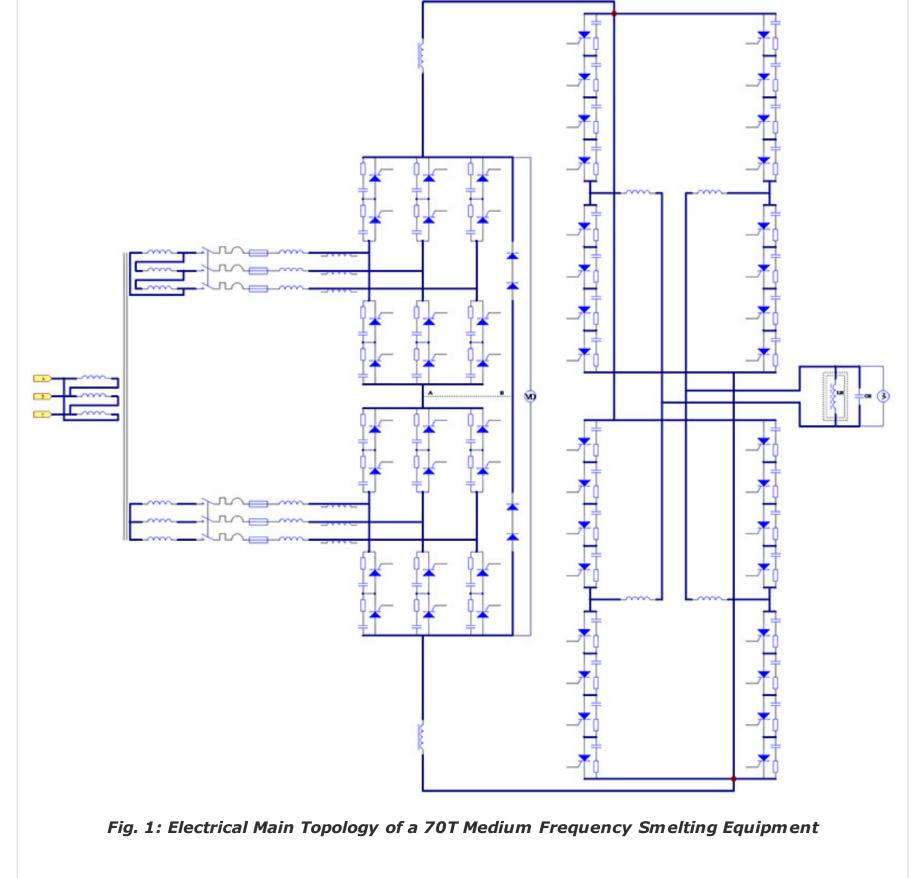
## **High Voltage Power Semiconductors in Series**

100% additional function test shortly

before shipment

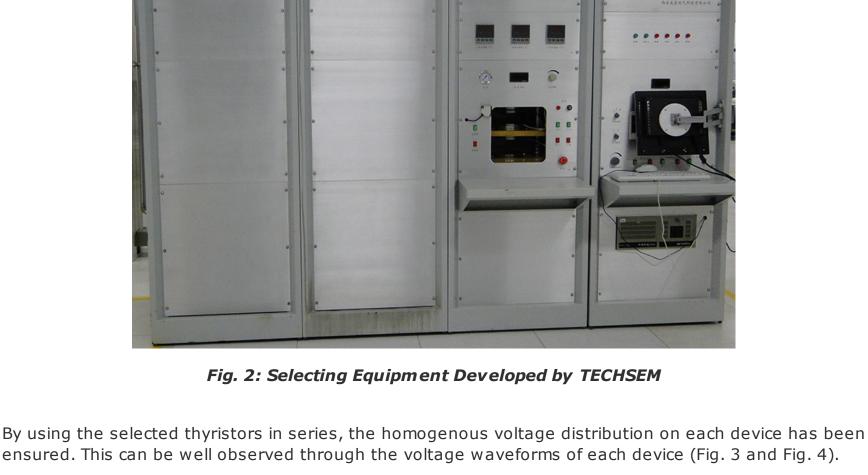
To achieve higher blocking voltage, we need to connect several thyristors in series. Realizing the homogeneous voltage on each device is what we are most concerned about. The homogeneous voltage for devices in series circuit can only be achieved, if the devices have the similar blocking voltages, switching-on characteristics and recovery characteristics. Fig.1 shows the main topology of a 70 Tone medium frequency (90Hz-350Hz) smelting equipment. TECHSEM's 4000V and 3500V fast turn-off capsule thyristors have been used in series to fulfill the requirement of 1500V line voltage of the rectifiers. The rectifiers are connected in series as well. The DC voltage is 4000V and the rated voltage for medium frequency is 5000V.

No wrong products or wrong shipment



According to the customer requirements, TECHSEM has developed the equipment for selecting components in series. Using this selecting equipment (Fig. 2), the components can be pairs selected according to their blocking voltages, switching-on characteristics and recovery characteristics.

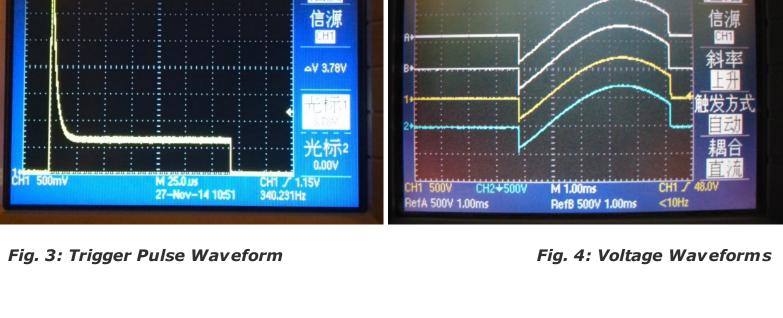
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