

KIT GmbH
- rectifier indroduction -





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1 Overview & Scope of Business

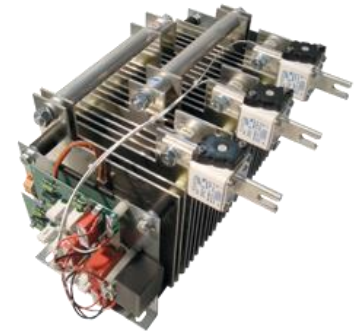
The KIT GmbH designs and manufactures controlled and uncontrolled power rectifiers in all circuit types and various production technologies for:

- welding equipment
- galvanic plating facilities
- plant construction and machinery
- railway technology
- SCR switches and commutators
- brake exciter rectifiers
- high voltage applications



The company is specialized in design and assembly of:

- power rectifiers in press fit technologies, module and disc component technology
- power rectifiers in water cooling technologies
- industrial DC power supplies to customer specification
- high voltage rectifiers to customer specification
- silicon-based replacement of selenium rectifiers in existing equipment and installations

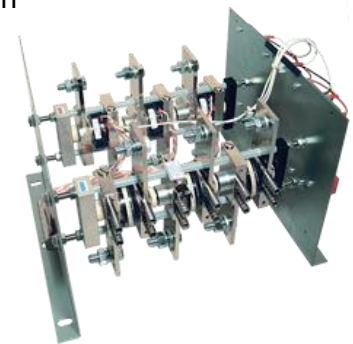


As accessories are available:

- Thyristor controls and ignition transformer
- protective circuits
- Silicon power semiconductor in disk, module and press-fit design
- encapsulated bridge rectifier

Standard Data of our product portfolio:

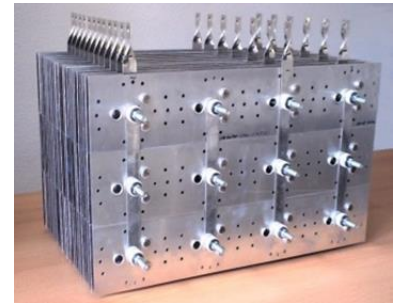
- Output voltage up to 15000 V DC
- Output current up to 22000 A DC
- Input voltage up to 690 V AC
- Input frequency to 1000 Hz
- all circuit types
- **Special voltages, - currents on request**



Our assemblies consist of components of a modular system. This makes it possible to produce both individual as well as large quantities of rectifier according to customer requirements and technical specification flexible.

2 Examples of Products

Press-fit diodes units / Back-off diodes / Selen substitution



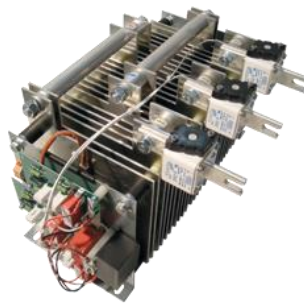
• all circuits

• up to 400 V AC

• up to 22000 A DC

- Standard plate size (100 x 100) mm / (100 x 125) mm / (100 x 375) mm / (100 x 500) mm (3,94 x 4,92) in / (3,94 x 9,84) in / (3,94 x 14,76) in / (3,94 x 19,69) in
- Special sizes and custom rectifiers upon request

Converters with disk semi-conductors



• all circuits

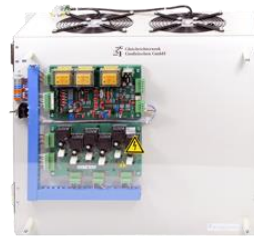
• up to 690 V AC

• up to 10000 A DC

- Standard plate size (120 x 185) mm / (200 x 200) mm (4,72 x 7,28) in / (7,87 x 7,87) in
- Special sizes and custom rectifiers upon request
- higher voltages upon request and technical specifications

3 Examples of Products (Converter and High-Voltage)

Compact Converters Ready for Installation



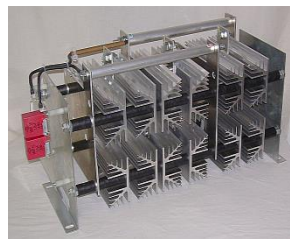
• all circuits

• up to 690 V AC

• up to 2500 A DC

- low power with thyristor-/diodes modules at standard heat-sink or in plate design
- high power with disk puk thyristors / -diodes in plate design with steel case
- complete with protection circuitry, temperature switch, super fast fuses, thyristor controlling unit, ignition transformers; axial fan modules
- higher voltages upon request and technical specifications

High-Voltage Rectifier Units



• all circuits

• up to 15000 V AC

• up to 200 A DC

- with avalanche diodes connection in series at heat-sinks
- complete with protection circuitry
- higher voltages upon request and technical specifications