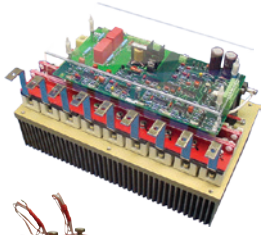
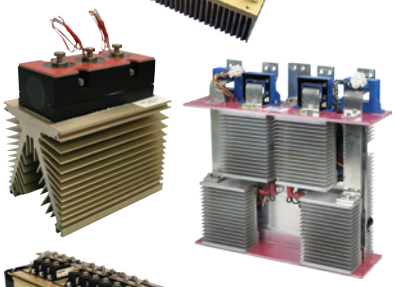
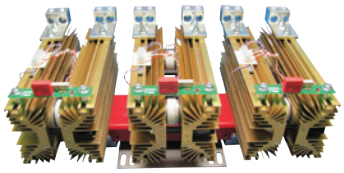
Rectifier & SCR Assemblies







Overview

Powerex is your source for diode and SCR rectifier assemblies in a wide range of configurations and ratings (up to 6500V, 4000A).

Applications

- Motor controls – Low Voltage and Medium Voltage converters
  - SCR power bridges for solid state starters
  - SCR and diode based input rectifiers
  - Crowbar systems for motor drives
- Wind power (alternative energy) – Converters available as diodes, SCRs or IGBTs
- Transportation – Traction rectifiers and auxiliary rectifiers
- Inductive heating – Input rectifiers
- Welding systems – Input rectifiers and fast recovery diodes
- Uninterruptible power supplies – SCR transfer switches and input rectifiers
- Electroplating systems – Input SCRs and output rectifiers
- Aviation – Standby power distribution, resistive heating
- Mining – SCR power bridges, solid state starters and input rectifiers
- Power distribution – SCR based transformer tap changers
- Military, hybrid vehicles and power supplies
- Solid state SCR based switches

Powerex complements its rectifier products with IGBT assemblies for inverters, converters, choppers, and full or half wave bridge units. These assemblies can also be combined to provide a system-wide solution.

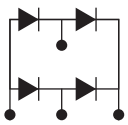
How to Select the Proper Assembly for Your Needs

Areas to consider when selecting the proper assembly.

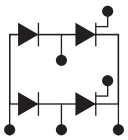
Application: _____

Type of circuit:

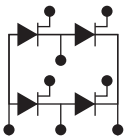
Single phase bridge



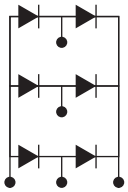
Single phase half controlled bridge



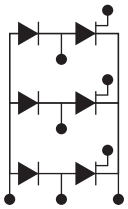
Single phase full controlled bridge



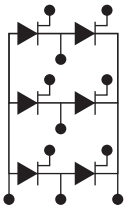
Three phase bridge



Three phase half controlled bridge



Three phase full controlled bridge



Electrical parameters:

Maximum continuous output current (amps): _____

Maximum overload:

Output DC current (amps): _____

Overload duration (seconds): _____

Input voltage (volts): _____

(VAC-RMS for single phase, VAC-RMS line-to-line for three phase)

Line frequency:

☐ 50 Hz or ☐ 60 Hz Other _____ Hz

Environmental parameters:

Maximum ambient temperature (°C): _____

Humidity (0-95% non-condensing): _____

Maximum altitude (feet above sea level): _____

With this information, Powerex engineers can design the proper assembly to fit your application needs.

For more information:
visit: http://www.pwrx.com/summary/assembly-rectifier.aspx
email: globalsales@pwrx.com
phone: 724-925-7272, Option 3 (Applications Engineering Assistance)

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