

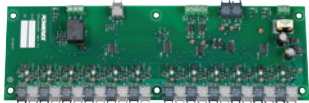


Medium Voltage SCR & Rectifier Assemblies



HV SCR Power Stack

- 5MW, 24kV SCR based power section
- Designed for low partial discharge (low corona)
- Scalable to other voltage and current ratings
- Air cooled, modular design



Fiber Optic Fan Out Board

- Receives SCR gate commands from external controller
- Fans out command to multiple level of SCRs
- Receives and processes feedback from gate boards

Gate Power Supply

- Current loop supplies power to all the SCR levels
- Provides excellent voltage isolation between SCRs and controls and also provides high BIL capability



HV Fiber Optic SCR Gate Drive Board

- Receives and conditions power from an isolated loop power supply current transformer, allowing for high voltage isolation
- Provides fiber optic triggering of gates
- Provides fiber optic status feedback for temperature and power supply health monitoring



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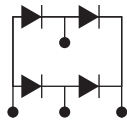
How to Select the Proper Assembly for Your Needs

Areas to consider when selecting the proper assembly.

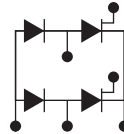
Application: _____

Type of circuit:

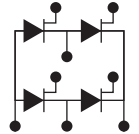
Single phase
bridge



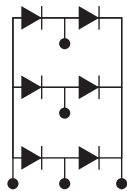
Single phase half
controlled bridge



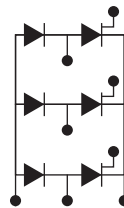
Single phase full
controlled bridge



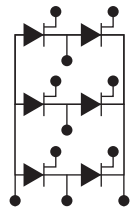
Three phase
bridge



Three phase half
controlled bridge



Three phase full
controlled bridge



Power Topology: _____

Electrical parameters:

Source MVA: _____

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

Distance to source: _____

Distance to load: _____

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.pwr.com/summary/assembly-rectifier.aspx>

email: globalsales@pwr.com

phone: 724-925-7272, Option 3 (Applications Engineering Assistance)

