

Spang Power Electronics

Rectifier Capabilities for Hydrogen Generation

A trusted leader in power conversion technology, Spang Power Electronics manufactures heavy-duty rectifiers that ensure precise and efficient power delivery to electrolyzers.

Multi-Pulse SCR Rectifiers

Spang Power's versatile multi-pulse designs (6, 12, 18, and higher pulse configurations) leverage SCR (thyristor) control to ensure stable, precise power delivery. These configurations are ideal for applications requiring low harmonics and improved power factor performance.

IGBT Rectifiers

For applications requiring precise power regulation and the highest power quality, Spang Power's IGBT-based rectifiers excel. Ideal for active front end (AFE) or DC chopper applications, the IGBTs allow for high frequency switching and improved power quality compared to SCR based designs.

Combination

Thyristors and IGBTs can be utilized within the same electrolyzer. SCR rectifiers provide DC power, while IGBTs serve as active filters to inject equal and opposite frequencies for harmonic mitigation.



**“Electrification,
customer value,
and long-term
reliability”**

1050 System Control Amplifier



- ▶ Eighteen (18) SCR or IGBT Firing
- ▶ Modular Design
- ▶ HV and Remote Firing / Feedback Options
- ▶ Capability to Control Multiple Power Stages
- ▶ Industrial Network Communications
- ▶ Alarm and Fault Monitoring
- ▶ Process Protection
- ▶ PC Setup and Configuration
- ▶ Advanced Local Control and Monitoring
- ▶ Application-specific Software

Choose Spang Power Electronics

Proven Reliability

All products are engineered to perform in rugged environments for decades of dependable service.

Advanced Ripple Filtering

Specialized inductive and/or capacitive filtering solutions meet customers' unique ripple current requirements of electrolytic cells.

Digital Control Technology

State-of-the-art digital control systems provide precise power control, high-speed networking capabilities, and comprehensive alarm and fault monitoring in real time.

Custom Solutions

Customized, optimized rectifier designs to meet precise performance and environmental requirements.

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DIVISION HEADQUARTERS & MANUFACTURING

9305 Progress Parkway
Mentor, OH 44060 USA
Phone: +1.440.352.8600
Email: spesales5@spang.com

MANUFACTURING FACILITIES

Sandy Lake, PA USA
Xiamen, China

Visit us at spangpower.com