Options

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- **Installation/external wiring/bus related work can be implemented as a package.**

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Fuji Electric Systems Co., Ltd.
Gate City Ohsaki, East Tower, 11-2, Osaki 1-chome, Shinagawa-ku, Tokyo 141-0032, Japan
Phone : (03)5435-7114

Internet address : http://www.fujielectric.co.jp

Information in this catalog is subject to change without notice.
Fuji Electric System’s highly reliable thyristor DC power supply unit is the fruit of our substantial expertise in large-current technology nurtured over the years. Select the most suitable design for your facility, based on the wealth of available options.

### Features

#### High reliability

Our large-current rectifier (trade name: S-Former) technology, typically used for aluminum electrolysis, has been employed in small to medium capacity devices to achieve high-reliability design.

#### Efficiency measurement by combination tests

Achieving high efficiency is critical for large-current rectifiers. We conduct combination tests of transformers and rectifiers to measure and verify efficiency before delivery.

#### Simplified on-site installation achieved by the delivery of an integrated unit

For overseas installations, the rectifier and transformer can be integrated as one single unit, optimizing the reduction of required installation space at your facility.

### Extensive menu selections available for various applications

- **Control**
  - Applicable to ACR, AVR, AWR, and other special control operations.
  - Standard control accuracy: ±2%
  - Direct digital control devices (DDC) are also available (option).

- **Cooling**
  - Transformer: Oil/water-cooled, oil/air-cooled, oil-immersed self-cooled, oil-immersed air-cooled, dry self-cooled, dry air-cooled, dry water-cooled, and molded type cooling systems are available.

- **Structure**
  - A rectifier is mounted on a transformer, which minimizes the installation space required.
  - Standard design for indoor use includes panel structure with ventilation.
  - Optional design for indoor use includes totally enclosed structure to provide protection from atmosphere.
  - Standard design for outdoor use includes totally enclosed panel structure.

- **Harmonic disturbance suppression**
  - The harmonic disturbance incoming to a rectifier can occasionally cause problems. Multi-phase (12, 24, and 48 phases) rectification and harmonic disturbance suppression by harmonic filters for the entire systems can be applied, based on our abundant experience and substantial analysis.

### Applications and specifications

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*1: Per double-star-connected 12-phase rectifier
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  - Rectifier: Water-cooled, water/air-cooled, direct water-cooled, air-cooled, circulated air/water-cooled, water-cooled/water/air-cooled purified water cooling systems are available.
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### Rectifier unit

- Configuration featuring a rectifier mounted on a transformer
  - 260V DC, 26kA
  - 510V DC, 16.5kA

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