## Accessories
Separate purchase is required.

### Settings

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VL-JAL and VL-JMH are consisted of a variable resistor, a scale plate and a knob.

### Separate fuse units

#### Model | Specification
--- | ---
FU-J020 | Applicable current 20A, rapid fuse and holder
FU-JA030 | Applicable current 30A, rapid fuse and holder with cover
FU-JA040 | Applicable current 40A, rapid fuse and holder with cover
FU-JA050 | Applicable current 50A, rapid fuse and holder with cover
FU-JA075 | Applicable current 75A, rapid fuse and holder with cover
FU-JA100 | Applicable current 100A, rapid fuse and holder with cover

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### VL-JAL, VL-JMH

- High-limit setting knob
- Panel cutout/mounting hole
- Weight: 240g

### VL-JHL

- High-limit setting knob
- Hole diameter 3.5
- Panel cutout/mounting hole
- Weight: 50g

### VL-JAM

- Manual setting knob
- Output indicator
- Weight: 600g

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### FU-J020

- Hole diameter: 3.5
- Weight: 110g

### FU-JA

- Rapid fuse
- Micro switch
- Contact signal terminal
- Hole diameter: 3.5
- Weight: 250g

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### THYRISTOR REGULATOR
JB SERIES

JB series small and lightweight thyristor regulators for single-phase loads are characterized with high panel installation density. 6 models for the rated current of 20A, 30A, 40A, 50A, 75A and 100A are available for regulation of alternative current power by the combination with a controller or by manual control.

Two control systems, a phase-angle firing system for continuous power control and a zero-cross firing system, are built-in and selectable for various applications and power environment.

The applications include small electric furnaces, calibration bath, casting dies heating and heating units for laboratory use.

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### Feature

- **Compact structure**
  Compact, lightweight and high panel installation density

- **Phase-angle firing/zero-cross firing**
  The phase-angle firing system and the zero-cross firing system can be selected by internal switches. You can select an appropriate system depending on applications or power environment.

- **Automatic frequency detecting function**

- **Linearization of input/output characteristics**

- **Programmable soft-start time**
  With a built-in trimmer, the soft-start time and soft up/down time are programmable. This function is convenience to countermeasure a rapid change of load voltage and input signal, and to prevent overloading to loads by over-current.

- **Built-in slope setting function**
  The slope of output to input signal can be adjusted by a built-in trimmer. A slope-setting unit is separately available, too.

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### Model

**JB-2**

- Rated current
  - 020: 20A
  - 030: 30A
  - 040: 40A
  - 050: 50A
  - 075: 75A
  - 100: 100A

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CHINO CORPORATION
32-8, KUMANO-CHO, ITABASHI-KU, TOKYO 173-8632
Telephone: +81-3-3866-2171
Fax: +81-3-3866-0915
E-mail: info@chino.co.jp
Website: http://www.chino.co.jp

Specifications subject to change without notice. Printed in Japan 01 2000 1
### Specification

No. of phases: Single phase

Rated voltage:
- 100 to 120VAC and 200 to 240VAC
- Common to 100V line and 200V line (selectable by terminals)

Allowable voltage fluctuation:
- 90% to 110% of rated voltage

Rated current: 50Hz/60Hz (automatic selection)

Allowable frequency fluctuation:
- ±1 Hz of rated frequency
- ±2 Hz of rated frequency

Rated current:
- 20, 30, 40, 50, 75 and 100A, 6 types

Input signal: 4 to 20mA DC

Input resistance: 100 0

Output range: 0 to 98% of the rated voltage

Minimum load current: 0.5A (at 98% output)

Applicable load:
- Resistive load
- Inductive load (transformer primary control and phase control system only)

Control system:
- Phase-angle firing and zero-cross firing (selectable by built-in dipo switches)

Output setting range:
- Slope setting (0 to 100%)
- Low-limit setting (0 to 100%)

Other functions:
- Soft start, soft up/down (approx. 1 to 20 sec.)
- Soft start at reset of power interruption

Working temperature range:
- Performance guarantee: ...0 to 40°C
- Operation guarantee: ...-15 to +55°C

Working humidity range: 30 to 90%RH

Insulation resistance: 500VDC, higher than 20MΩ between power terminals and case

Dielectric strength: 2000VAC, 1 minute

Weight:
- Model JB-2020: Approx. 0.9 kg
- Model JB-2030: Approx. 1.0 kg
- Model JB-2040: Approx. 1.2 kg
- Model JB-2050: Approx. 1.3 kg
- Model JB-2075: Approx. 1.9 kg
- Model JB-2100: Approx. 1.9 kg