

Feature

- With three-phase current display and the number of data detection function display (standard models current detection function)
- 0.1% of the fully digital operation display and a number of debugging and protection functions, high precision process control, resolution
- All models with RS485 Modbus RTU communication functions to facilitate real-time monitoring and control
- A variety of input control: 4 ~ 20mA, 0 to 20mA, 1 to 5V, of 0 ~ 5V of 2 ~ 10V, 0 ~ 10V, potentiometer, the KEY IN RS485
- Three-phase full-wave control output mode, then zero phase line output mode and set to the regulator, the current limit, the constant current mode
- Can set maximum and minimum set start time and output buffer
- Number of abnormal display, real-time output alarm and stop setting the SCR output or continue to work
- With input and output terminal protective cover to prevent the risk of electric shock
- The power input of the built-in high-speed fuse to protect the internal SCR module
- Containing electronic automatic temperature detectors as a heat sink overtemperature protection
- Cooling fan automatic control, fan operation, the temperature is too high to avoid fan for a long time operation, extend fan life.
- No phase sequence of the main power and auxiliary power relations, boot in no particular order, 50/60HZ automatically do do.
- The full-featured models with three-phase the imbalance detection function and load measured disconnection overcurrent SCR breakdown anomaly detection



30-150A

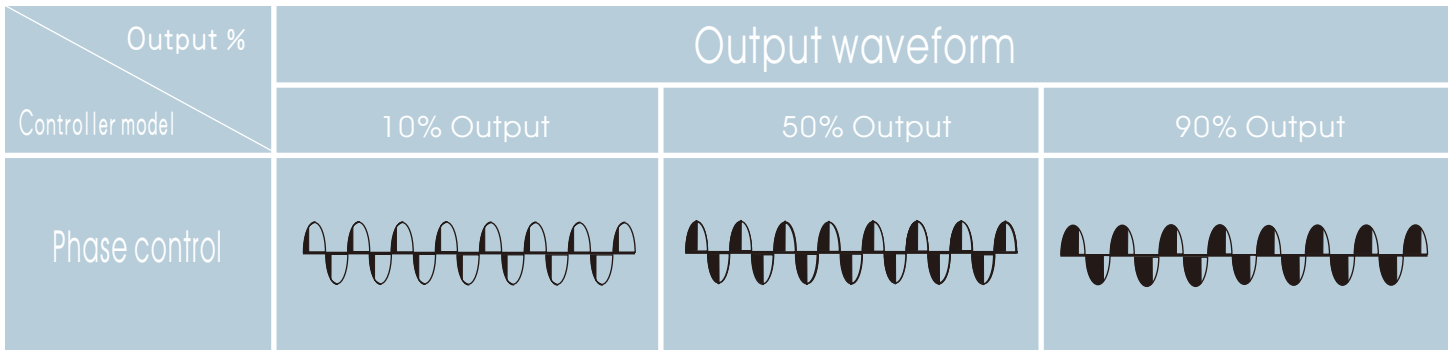
DPR Series

We offers a full range of SCR digital power controllers with phase angle firing to suit many industrial applications: Industrial heating, furnaces, kilns, variable resistive loads, transformer coupled loads, fast response loads, high in-rush current, short wave infrared, standard resistive loads, silicon carbide elements. giving optimum performance and equipment lifetime. Available in single phase and 3-phase, digital scr power controllers are able to efficiently control all industrial heating applications.

Information

| | |
|------------------------|---|
| load current | 30,50,75,100,120,150A |
| load voltage | 100~480VAC |
| Auxiliary power | 100~230VAC +/-15% , 50/60HZ |
| Control signal | 0-20mA/4-20mA/0-5VDC/1-5VDC/0-10VDC,VR-10K,KEY IN,RS485 |
| Resolution / linearity | 0.1% / 1% |
| Leakage Current | 15mA (Max) |
| Consumption Watts | 5W (Max) |
| Frequency range | 50~60HZ |
| Input resistance | DCA (250Ω) ,DCV (10KΩ) |
| Insulation voltage | AC2500V (1 Min) |
| Alarm contacts | 2.0A |
| Operating Temp. | -10~82°C |
| Operating RH. | 95% RH |
| Communication | RS485 Modbus RTU |
| Cooling | Natural cooling or install a fan |
| Soft Start | 0-20% (about 0-15 sec) |
| Fan ON / OFF temp. | >50°C ON / <45°C OFF |
| Over temp. | <82°C OFF / >73°C ON |

Control mode and the output waveform comparison



Order code / Dimensions / Weight

Wiring diagram

| | | | | | | | |
|------------------------|--------------------------|--------------------------|--------------------------|-----------|--------------------------|--------------------------|--------------------------|
| MODEL: DPR | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | - | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Model | DPR | | | | | | |
| Type | 1 | Single-phase | | | | | |
| | 3 | Three-phase | | | | | |
| Voltage | 48 | 100-480VAC | | | | | |
| | 99 | SPECIFIED | | | | | |
| Current | 30 | 30A | | | | | |
| | 50 | 50A | | | | | |
| | 75 | 75A | | | | | |
| | 100 | 100A | | | | | |
| | 120 | 120A | | | | | |
| | 150 | 150A | | | | | |
| Control signal | - | | A | 0-20mA | | | |
| | | | B | 4-20mA | | | |
| | | | C | 0-5VDC | | | |
| | | | D | 1-5VDC | | | |
| | | | E | 0-10VDC | | | |
| | | | F | 2-10VDC | | | |
| | | | S | SPECIFIED | | | |
| Optional feature | S | Standard | | | | | |
| | C | Full-featured | | | | | |
| External Potentiometer | N | No | | | | | |
| | V | Have | | | | | |
| Type Spec. | (L X W X H)mm/(Weight)kg | | | | | | |
| 30A | 213X128X180mm/2.3kg | | | | | | |
| 50A | 245X128X170mm/3.1kg | | | | | | |
| 75A | 250X140X206mm/3.8kg | | | | | | |
| 100A | 250X140X206mm/3.8kg | | | | | | |
| 120A | 250X140X206mm/3.8kg | | | | | | |
| 150A | 305X140X206mm/4.2kg | | | | | | |

