

# MZD-3 R50□A

## Three-phase intelligent rectifier regulator module

### 三相全隔离智能整流调压模块



## 产品特点 Product Characteristics

- 输入控制端与强电主回路之间为全隔离设计，绝缘介质 > 2000VAC。
- 模块采用优质安全的电子元件、SMT贴片工艺、大功率晶闸管芯片和低热阻铜瓷键合(DCB)底板，内置同步变压器组成一体化结构，环氧树脂灌封、体积小、性能稳定、可靠性高。
- 具有线性补偿功能，输出为线性特性曲线，内置RC阻容吸收谐波干扰小，抗干扰能力强。
- 模块全面兼容0-5VDC、1-5VDC、0-10VDC、2-10VDC、0-10mA、4-20mA等自动输入信号，也可用2-10k/2w电位器手动控制，输入调节范围宽输出调节精度高。
- 设计有绿色LED电源指示灯和红色LED输出调节量指示灯，方便用户观察工作状态。
- The input control terminal and the main circuit of the strong current are fully isolated, and the insulating medium is > 2000VAC.
- The module adopts high quality and safe electronic components, SMT technology, high power thyristor chip and low thermal resistance copper porcelain bonding (DCB) base plate, built-in synchronous transformer to form an integrated structure, epoxy resin pot-seal, small size, stable performance and high reliability.
- With linear compensation function, the output is linear characteristic curve, built-in RC resistance and capacitance absorption harmonic interference is small, strong anti-interference ability.
- The module is fully compatible with 0-5VDC, 1-5VDC, 0-10VDC, 2-10VDC, 0-10mA, 4-20mA and other automatic input signals, and can also be manually controlled by 2-10k/2w potentiometer, with wide input adjustment range and high output adjustment accuracy.
- Designed with green LED power indicator and red LED output adjustment indicator, convenient for users to observe the working state.

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## 主要技术参数 Main Technical Parameters

项目 Item	参数 Parameters
输出电压变化范围 Output Voltage Range	0~520VDC
输出负载电流 Output Load Current	30A, 60A, 100A, 150A, 200A
输入控制方式 Input Control Methods	R: 10K 电位器 Potentiometer V: 0-5VDC L: 4-20mA
输出电压 Output Voltage	1.35V <sub>IN</sub>
介质耐压 Dielectric Strength	2500VAC
绝缘电阻 Insulation Resistance	1000MΩ /500VDC
环境温度 Ambient Temperature	-25~75℃
安装方式 Mounting Methods	螺栓固定 Bolt fixed
重量 Weight	480g

## 注意事项 Matters needing attention

- 根据负载功率大小，应选择不同电流余量，功率越大，电流余量越大，一般选择模块的电流容量是负载电流的2-4倍；
- 过压保护：输出端并接续流二极管或压敏电阻，取值为实际负载电压的1.7-1.9倍；
- 过流保护：主回路串接快速熔断器或断路器，取值为实际负载电流的1.5倍；
- 散热要求：负载10A以上，必须安装散热器，40A以上加风扇强冷或水冷。
- According to the load power size, should choose different current margin, the larger the power, the larger the current margin, the general selection module current capacity is 2-4 times of the load current;
- Overvoltage protection: the output end and connected to the current diode or varistor, the value is 1.7-1.9 times the actual load voltage;
- Overcurrent protection: the main circuit is connected with a fast fuse or break switch, the value is 1.5 times the actual load current;
- Heat dissipation requirements: The load is more than 10A, must be installed radiator, more than 40A plus fan strong cooling or water cooling.

## 外形及安装尺寸 / 接线图 Outline and mounting dimensions/wiring diagram (mm)

