

# 感应加热电源 Induction heating power supply



## 产品用途 Application

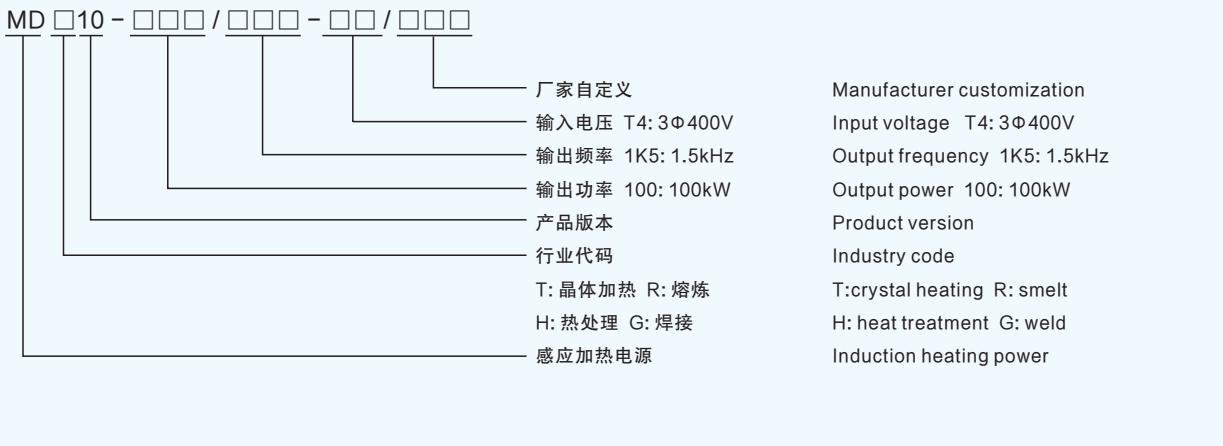
产品广泛应用于金属热处理、淬火、退火、透热、熔炼、焊接、半导体材料炼制、晶体生长、塑料热合、光纤、烘烤和提纯等行业领域。

Widely used in the fields of metal heat treatment, hardening, annealing, melting, welding, semiconductor material refining, crystal growth, plastic heat sealing, optical fiber drawing, toasting and purification, etc.

## 产品特点 Product Features

- 32位DSP控制核心，丰富的参数设定、检测和完善的保护功能
- IGBT等开关器件，在锁相环的精确控制下频率自动跟踪，保证设备工作在谐振状态，开关损耗降到最低
- 16位精度的A/D采集，分辨率高
- 频率锁相采用CPLD、FPGA作为数字锁相核心，并采用数字“增强型FIR滤波”和“CK锁相技术”，可用于多线圈同时工作，确保检测准确性和系统快速稳定性
- 采用模块化设计，减少干扰，维护方便
- 具有恒温、恒流、恒功率功能
- LED数码显示，键盘参数设置，具有工艺曲线编程，可根据程序自动运行，可与触摸屏通讯组成监控系统
- 良好的抗电压波动性能，进线电压波动范围 $\pm 10\%$ ，不影响输出功率
- 电源可根据用户需求定制
- Using 32bit DSP as the control core, with a wealth of parameter setting, detection and perfect protection function
- IGBT as a switching device, frequency automatic tracking in the precise control of the phase lock loop
- 16 bit precision A/D acquisition, high resolution
- Frequency phase locking using CPLD、FPGA as the core of digital phase lock, and use digital “enhanced FIR filter” and “CK phase lock technology” can be used for multi coil at the same time to ensure the detection accuracy and system stability
- Modular design, reduce interference, easy maintenance
- With constant temperature, constant current and constant power, flexible control
- LED digital display, keyboard parameter settings, easy to operate, with process curve programming, according to the program automatically run, communicated with touch screen and formed a monitoring system
- Good withstand voltage fluctuation, the line voltage fluctuation is between  $\pm 10\%$ , not affect the output power
- Can be customized according to users needs

## 型号定义 Model Definition



## 规格参数 Specification

输入	
输入电压	3Φ AC 380V ~ 450V
输入频率	50/60Hz
输出	
额定电压	匹配实际负载
额定频率	0.3kHz ~ 200kHz ( 特殊可定制 )
额定功率	15kW ~ 2000kW ( 特殊可定制 )
功率调节范围	1% ~ 100% 额定功率
性能指标	
功率因数	0.85 ~ 0.94
功率控制分辨率	1/60000
整机效率	≥94%
主要特征	
控制信号	模拟、数字通讯
控制方式	恒功、恒流、恒温
调功方式	直流侧调功 / 逆变侧调功
工作方式	连续
软起、关时间	1 ~ 10S
显示	标准配置：触摸屏
通讯	标准配置：RS485通讯接口、支持MODBUS RTU 通讯；选件支持 Profibus-DP, TCP/IP, Profinet 通讯
保护功能	电源故障、IGBT过流、IGBT过热、输出过压、频率超限、中频故障保护、流量异常时保护等

Input	
Input voltage	3Φ AC 380V ~ 450V
Input frequency	50/60Hz
Output	
Rated voltage	Matched actual load
Rated frequency	0.3kHz ~ 200kHz ( Specially customizable )
Rated power	15kW ~ 2000kW ( Specially customizable )
Power regulating range	1% ~ 100% rated power
Performance index	
Power factor	0.85 ~ 0.94
Power control resolution	1/60000
Efficiency	≥94%
Main features	
Control signal	Analog, digital communication
Control mode	Constant power, constant current, constant temperature
Power regulation mode	DC side power regulation / inverter side power regulation
Operation mode	Continuous
Soft starting and closing time	1 ~ 10S
Display	Standard configuration: touch screen
Communication	Standard configuration: RS485 communication interface, support MODBUS RTU communication; Option support Profibus-DP, TCP/IP, Profinet communication
Protection	Protect when power fault, IGBT overcurrent, IGBT overheating, output overvoltage, frequency out of limit, MF fault protection, flow anomaly etc.

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