



PZG series Medium (High)-Frequency Induction Melting Power Supply

PZG系列 中（高）频熔炼电源

PZG 系列中(高)频熔炼电源具有使用操作方便、锁相频率范围大、对不同的感应圈适应能力强。可广泛应用于真空或非真空金属熔炼、磁悬浮熔炼。

PZG series Medium high-frequency induction melting power supply is convenient to operate and use, has a wide range of phase-lock frequency and adaptable to various induction coils. It can be widely used in vacuum or anti-vacuum metal smelting and electromagnetic levitation melting.

PZG□-□KW/□V/□KHZ

选型说明 Model definition

额定频率

Rated frequency

输入电压: AC 3*380V 其它

Input Voltage: AC 3*380V Other

额定功率

Rated Power

冷却方式 F: 风冷 S: 水冷

Cooling mode F: Air cooling S: Water cooling

PZG 系列中(高)频熔炼电源

PZG series Medium (High) Frequency Melting Power

特点

Characteristics of Power supply

- 采用柜式一体化设计。
- 中频变压器采用超微晶合金材料，体积小、损耗低、转化效率高于95%。
- 变压器采用超微晶或高性能铁氧体，谐振电容采用低损耗电容，损耗角小于0.02%，电源体积小，损耗低，转换效率高。
- 逆变功率器件采用IGBT，谐振方式采用LC串联，频率适应范围广。
- 具有软启动、软关断功能，功率因数高。
- 操作方便，100%启动成功率，输出功率3-100%连续可调。
- 完善的保护功能，具有限压、限流、限功率以及缺相、过热、过流、过热等保护功能。
- 具有软启动、软关断特性。
- 自动限压(限流)功能，输出电压(限流) ≥ 1.1 倍额定电压时，电压被限制。
- 功率因数大于0.92，电源的转化效率高于96%。
- It adopts cabinet-type integrated design .
- The medium-frequency transformer adopts ultracrystalline alloy materials and it is characterized by a small size, low losses and a conversion efficiency above 95%.
- The transformer adopts ultracrystalline or high-performance ferrite, the resonant capacitor adopts low loss capacitor, the loss angle $< 0.02\%$, the power supply has small volume, low loss and high conversion efficiency.
- The inverter power device adopts IGBT, the resonance mode adopts LC series, and the frequency adaptation range is wide.
- The Power supply has soft start and soft close functions and high power factor.
- Easy operation, 100% startup success rate, output power 3-100% continuously adjustable.
- Perfect protection function, with voltage limiting, current limiting, power limiting, phase loss, overheating, overcurrent, overheating and other protection functions.
- with soft start and soft close features.
- with automatic voltage (current)-limiting function, when the output voltage (current) is equal to or greater than 1.1 times of the rated voltage, the voltage will be limited.
- PF ≥ 0.92 , efficiency $\geq 96\%$

技术参数

Technical parameters

PZG series Medium (High) Frequency Melting Power Supply

| | | |
|-----------------------|---|---|
| 输入 Input | 3×AC380V±15%; 50/60HZ 其它 (others) | |
| 输出 Output | 输出功率10KW~1500KW (可定制) 10KW~1500KW output power (customizable) | |
| | 输出频率 0.5-25KHZ (可定制) 0.5-25KHZ Output frequency (customizable) | |
| 主要特性 Main features | 给定方式 Given method | 模拟量:DC 0-5(10)V 0(4)-20mA Analog quantity: DC 0-5(10)V 0(4)-20mA |
| | 控制模式 Control mode | 恒电流、恒功率 Constant current, constant power |
| | 控制精度 Control precision | 优于0.1% Overtop 0.1% |
| | 分辨率 Resolution ratio | 16位 16 bits |
| | 功率因数 PF | ≥ 0.92 |
| | 效率 Efficiency | $\geq 96\%$ |
| | 工作方式 Working mode | 连续式 Continuous type |
| | 冷却方式 Cooling mode | 风冷/水冷 Air cooling/water cooling |
| 环境 Environment | 使用环境温度 Ambient temperature | -5°C~+40°C |
| | 储存温度 Storage temperature | -5°C~+60°C |
| | 相对湿度 Relative humidity | $\leq 90\%RH$, 不结露 No moisture condensation $\leq 90\%RH$ |
| 结构 Structure | 安装方式 Installation way | 室内柜式安装 Indoor cabinet-type installation |

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