



## PZS series Medium-frequency Induction Heating & Sintering Furnace Power Supply

### PZS系列 中频感应加热烧结炉电源

PZS 系列中频感应加热烧结炉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。可广泛应用于石墨发热体的真空或非真空烧结炉。

PZS series Medium-frequency Induction Heating & Sintering Furnace 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 the vacuum or non-vacuum sintering furnaces of graphite heaters.

PZS□—□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

PZS 系列中频感应加热烧结炉电源

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## 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95%。
- 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 function 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 and other protection functions.
- It has soft start and soft close features.
- It has an 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≥95%

## 技术参数

### Technical parameters

### PZS series Medium-frequency Induction Heating & Sintering Furnace Power Supply

输入 Input	3×AC380V±15%; 50/60HZ 其它 (others)	
输出 Output	输出功率40KW~1000KW (可定制) 40KW~1000KW output power (customizable)	
	输出频率 1-2KHZ (可定制) 1-2KHZ 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	≥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℃~+40℃
	储存温度 Storage temperature	-5℃~+60℃
	相对湿度 Relative humidity	≤90%RH,不结露 No moisture condensation ≤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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