



PZC series High-frequency Diathermy and Quenching Power Supply

PZC系列 高频透热、淬火电源

PZC 系列高频感应加热电源系列具有使用操作方便、锁相频率范围大、对不同的感应圈适应能力强。可广泛应用于铜、铁等金属材料的锻造、透热、淬火或金属线材的在线热处理。

PZC series high-frequency induction heating 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 forging, diathermy, quenching of copper, iron and other metal materials or online heat treatment of metal wire.

PZC□-□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

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特点

Characteristics of Power supply

- 采用柜式一体化设计。
- 高频变压器采用超微晶合金材料或高性能铁氧体材料，体积小、损耗低、转化效率高于94%。
- 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96%。
- It adopts cabinet-type integrated design.
- The high-frequency transformer adopts ultra-crystalline alloy materials or high-performance ferrite materials and it is characterized by a small size, low losses and a conversion efficiency above 94%.
- The transformer adopts ultra-crystalline 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 and other protection functions.
- with 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 $\geq 96\%$

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技术参数

Technical parameters

输入 Input	3×AC380V±15%; 50/60HZ 其它 (others)	
输出 Output	输出功率10KW~500KW (可定制) 10KW~500KW output power (customizable)	
	输出频率5-60KHZ (可定制) 5-60KHZ 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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