



PGD series Induction Method Single Crystal Growth Furnace Power Supply

PGD系列 感应法单晶生长炉电源



PGD 系列单晶生长炉电源主要应用于感应法晶体生长领域，如导模法蓝宝石、碳化硅等晶体生长。

This power supply is mainly used in the field of induction method crystal growth, such as Al_2O_3 (EFG) crystal, SiC crystal growth, and other crystal growth.

PGD□ — □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

PGD 系列单晶炉生长电源

PGD series single crystal growth furnace power supply

特点

Characteristics of Power supply

- 采用柜式一体化设计,按行业标准设计。
- 高精度闭环控制,控制精度优于 0.01%。
- 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 0.2-100% 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。
- 多种通讯方式可选。
- It adopts cabinet-type integration according to relevant industrial standards.
- High precision closed-loop control, the control accuracy is better than 0.01%.
- 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 0.2-100% continuously adjustable.
- Perfect protection function, with voltage limiting, current limiting, power limiting, phase loss, overheating, overcurrent and other protection functions.
- Multiple communication modes can be selected.

技术参数

Technical parameters

PGD series induction method single crystal growth furnace power supply

输入 Input	3×AC380V±15%; 50/60HZ 其它 3×AC380V±15%, 50/60HZ (others)	
输出 Output	输出功率20KW~200KW (可定制) Output power 20KW~200KW (customizable)	
	输出频率 0.5-50KHZ (可定制) Output frequency 0.5-50KHZ (customizable)	
主要特性 Main features	给定方式 Given method	模拟量、通讯 Analog quantity, communication
	控制模式 Control mode	恒电流、恒功率 Constant current, constant power
	控制精度 Control precision	优于0.01% Overtop 0.01%
	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°C~+40°C
	储存温度 Storage temperature	-5°C~+60°C
	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

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. NOT RESPONSIBLE FOR ERRORS OR OMISSIONS.
©2022 JIANGSU EASTONE TECHNOLOGY CO., LTD. ALL RIGHTS



江苏东方四通科技股份有限公司
JIANGSU EASTONE TECHNOLOGY CO., LTD.

www.zjgst.com

地址: 江苏省张家港经济技术开发区新泾西路1号
(ADD): No. 1, Xinjing West Road, Zhangjiagang Economic and Technological Development Zone, Jiangsu Province
电话 (TEL): 0512-58105999 58105998 58105955
传真 (FAX): 0512-58105996 邮编 (P.C.): 215600 邮箱 (E-Mail): sales@zjgst.com

