

## GSD series DC Power Supply

### GSD系列直流电源



GSD系列直流电源是专为12英寸及以上尺寸单晶硅晶体生长炉开发的新一代直流电源，具有损耗低、功率因数高、谐波及纹波系数小等特点。

GSD series DC power supply is a new generation DC power supply developed specially for crystal growth furnace of 12 inch and above single crystal silicon. Characteristics of the power supply are low loss, high power factor, and small harmonic and ripple coefficient.

GSDS—□KW/□V/□V DC—□A

#### 选型说明 Model definition

输出电流

Output Current

输出电压

Output Voltage

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 S: 水冷

Cooling mode S: Water cooling

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## 特点

### Characteristics of Power supply

- 采用柜式一体化或模块化设计, 按行业标准设计。
- 模块化结构采用 N+1 冗余配置, 可靠性高。
- 采用 IGBT 作为逆变功率器件, 超微晶合金变压器, 体积小、重量轻、功率因数高、转换效率高。
- 高速 DSP 芯片和高精度 AD 转换。
- 具有输入过 / 欠压、输出限电压、输出限电流、负载开路 / 短路, 温度异常保护等完善的故障检查及保护功能。
- 输入 / 输出信号采用隔离器件, 抗干扰能力强。
- 多种通讯方式可选。
- 高稳定输出解决与超导磁场共振问题。

- It adopts cabinet-type integration or modular design according to relevant industrial standards.
- The modular structure adopts n + 1 redundancy configuration with high reliability.
- IGBT is used as the inverter power device, and the ultra-crystalline alloy transformer has the advantages of small volume, light weight, high power factor and high conversion efficiency.
- High speed DSP chip and high precision AD conversion.
- Power supply has perfect fault checking and protection functions such as input overvoltage / undervoltage, output voltage limiting, output current limiting, load open / short circuit, temperature abnormal protection, etc.
- The input / output signal adopts isolation device with strong anti-interference ability.
- Multiple communication modes can be selected.
- High stability output to solve the problem of resonance with superconducting magnetic field

## 技术参数

### Technical parameters

### GSD series IGBT DC Power Supply

输入 Input	3×AC380V±15%; 50/60HZ	
输出 Output	DC 0-60V (可定制) DC 0-60V(customizable)	
	DC 0-4000A (可定制) DC 0-4000A(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	恒压、恒流、恒功率 Constant voltage, constant current, constant power
	控制精度 Control precision	优于0.05% Overtop 0.05%
	稳定精度 Stabilization precision	优于0.05% Overtop 0.05%
	功率因数 PF	≥0.98
	效率 Efficiency	90-94%
	电流谐波 Current harmonic	≤10%
	通讯 Communication	Modbus RTU/Modbus TCP
	噪声 Noise	≤60dB
	工作方式 Working mode	连续式 Continuous type
冷却方式 Cooling mode	水冷 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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