

## HV 系列高压直流模块电源

### HV series high voltage DC power supply



### 产品用途 Application

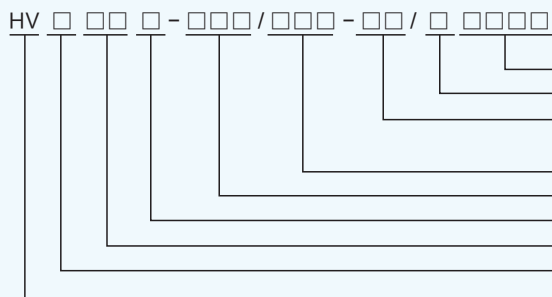
HV 系列高压直流模块电源是英杰电气针对半导体行业研发的小型化高压电源，可应用于离子注入、静电学、X射线分析、电子束系统、高压绝缘测试、实验室等。

HV series high-voltage DC power supply is a miniaturized high-voltage power supply developed by Injet for semiconductor industry, which can be applied to ion implantation, electrostatics, X-ray analysis, electron beam system, high-voltage insulation test, laboratory, etc.

### 产品特点 Features

- 体积小，可靠性高，操作简单、方便
- 电源输出稳定性高，纹波低
- 采用高精密的模拟集成电路进行PWM闭环调节，系统稳定，响应速度快
- 通过数字编码器进行电压和电流的高精度调节
- 高压电源具备恒压限流、恒流限压功能
- 系列产品可选连续输出和脉冲输出
- 系统高压过压、负载打火保护功能
- Small size, high reliability, simple and convenient operation
- High power output stability and low ripple
- PWM closed-loop regulation with high precision analog integrated circuit, the system is stable and the response speed is fast
- High precision regulation of voltage and current by digital encoder
- The high voltage power supply has the functions of constant voltage current limiting and constant current voltage limiting
- Can be customized continuous output and pulse output
- Protection function of system high voltage over voltage and load ignition

## 型号定义 Model Definition



厂家自定义

通讯方式

输入电压

S2: 1Φ220V T4: 3Φ400V

额定电流 (10m: 10mA)

额定电压 (40k: 40kV)

产品版本

最大功率 (01: 1kW)

模块高度 (1: 1U)

HV\*系列高压电源

P:脉冲电源 S:连续高压

Manufacturer customization

Communication parameter

Input voltage

S2: 1Φ220V T4: 3Φ400V

Rated current (10m: 10mA)

Rated voltage (40k: 40kV)

Product version

Maximum power (01: 1kW)

Module height (1: 1U)

HV\*series voltage power supply

P:pulsed power supply S:continuous high pressure

型号Type	高压电压Voltage	高压电流Current	外形尺寸 Dimension 长×宽×厚(mm) Length × width × height (mm)	重量 (kg) weight (kg)	冷却方式 Cooling mode
HVS101A-40K/10m-S2/4F00	-40kV	10mA	539 × 482 × 43.5	7.16	风冷 Air cooling

## 规格参数 Specification Parameter

输入	
输入电压	AC220V ± 10%
输入频率	50/60Hz
输出	
输出功率	400W
输出电压	DC -40kV
输出电流	DC 10mA
控制接口	
模拟量输入	1路 (DC4~20mA; DC0~5V; DC0~10V)
开关量输入	2路常开
开关量输出	1路常开
通讯	标准配置: RS485通讯接口, 支持Modbus通讯
选件	支持Profibus-DP通讯
性能指标	
控制精度	0.2%
稳定度	≤0.05%
电压纹波	<0.5% (恒压模式下p-p), <0.2% (恒压模式下rms)
控制方式	恒压限流/恒流限压
保护功能	
母线电压保护	当母线电压不在设定值范围内时候输出截至, 报警停机
输出过载保护	输出电流或电压超过保护设定值, 报警停机
输出电压保护	输出电压超过一定设定值, 1min内次数过多, 报警停机
负载打火保护	负载打火时, 停止输出, 并自动重启, 1min内打火次数超过设定值, 报警停机

Input	
Input voltage	AC220V ± 10%
Input frequency	50/60Hz
Output	
Output power	400W
Output voltage	DC -40kV
Output current	DC 10mA
Control interface	
Analog input	1 loop (DC4~20mA; DC0~5V; DC0~10V)
Switching value input	2 loops normally open
Switching value output	1 loop normally open
Communication	Standard configuration: RS 485 communication interface, supporting Modbus communication
Options	Support Profibus-DP communication
Performance index	
Control accuracy	0.2%
Stability	≤0.05%
Voltage ripple	<0.5% (P-P in constant voltage mode), <0.2% (RMS in constant voltage mode)
Control mode	Constant voltage current limit / constant current voltage limit
Protection function	
Bus voltage protection	The output stops when the bus voltage is not within the set value range, alarm and stop
Over load protection	When the output current or voltage exceeds the protection set value, alarm and stop
Output voltage protection	When the output voltage exceeds the set value, the number of times is too many within 1min, alarm and stop
Load ignition protection	When the load is ignited, stop the output and restart automatically. If the number of times of ignition exceeds the set value within 1min, alarm and stop

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