



## PST-Series RF Power Supply

### PST系列射频电源



PST 系列射频电源主要应用于等离子体、太阳能电池、显示屏制造等领域，以其优良的控制算法、对功率的精确控制、稳定可靠的持续输出，能够适用于丰富多样的等离子体应用。

PST-series RF power supply is mainly used in plasma, solar cell, display screen manufacturing and other fields. With excellent control algorithm, precise control of power, stable and reliable continuous output, it can be applied to a variety of plasma applications.

#### PST - RF5K - 13MA

#### 选型说明 Model definition

输出频率: "13", 13.56MHz "27", 27.12MHz  
 Output Frequency: "13", 13.56MHz "27", 27.12MHz

输出功率: "5", 5kW "10", 10kW  
 Output Power: "5", 5kW "10", 10kW

设备类型: "RF", 射频电源 "AM", 匹配器  
 Type: "RF", RF Power Supply "AM", RF Match Box

机种型号: PST 系列  
 Model: PST-Series



## 特征

### Features

- 采用模块化设计,按照行业标准设计。
  - 高稳态功率输出。
  - 最大效率可达 80%。
  - 0.5W 的最小功率控制精度。
  - 脉冲输出功能集成。
  - Arc 抑制功能集成。
  - 自动频率调谐。
  - 丰富的通讯接口。
  - 控制指令快速响应。
- It adopts modular design and is designed according to industrial standards.
  - High steady-state power output.
  - Maximum efficiency up to 80%.
  - 0.5W minimum power control accuracy.
  - Pulse output function integration.
  - Arc suppression function integration.
  - Auto frequency tuning.
  - More communication interfaces.
  - Quick response to control commands.

## 技术参数

### Technical parameters

## PST-Series RF Power Supply

| 型号<br>Model                            | PST-AM5K-13MA   | PST-AM10K-13MA                   |
|--|---|----------------------------------|
| <b>供电参数</b><br>Power supply parameter  |   |                                  |
| 供电电压<br>Power supply voltage           | 24VDC / 87-264VAC   | 24VDC / 87-264 VAC               |
| 供电频率<br>Power supply frequency         | 50 / 60Hz(45-65)Hz  | 50 / 60Hz(45-65)Hz               |
| <b>功率参数</b><br>Power parameter         |   |                                  |
| 输出功率<br>Output power                   | 5kW   | 10kW                             |
| 标称功率<br>Nominal power                  | 5kW   | 10kW                             |
| 输出频率<br>Output frequency               | 13.56MHz±0.5%   | 13.56MHz±0.5%                    |
| 反射功率<br>Reflected power                | 5w or<1% of forward power   | 5w or<1% of forward power        |
| <b>通信接口</b><br>Communication interface |   |                                  |
| 接口<br>Interface                        | 模拟量输入, RS232/RS485,Profibus, DeviceNet<br>Analog input, RS232/RS485,Profibus, DeviceNet |                                  |
| <b>环境</b><br>Environment               |   |                                  |
| 工作环境温度<br>Operating temperature        | +5°C~+45°C  | +5°C~+45°C                       |
| 存储环境温度<br>Storage temperature          | -25°C~+55°C   | -25°C~+55°C                      |
| 相对湿度<br>Relative humidity              | 5-85%无冷凝<br>5-85%No condensation  | 5-85%无冷凝<br>5-85%No condensation |
| 气压<br>Atmospheric pressure             | 80-106kPa   | 80-106kPa                        |
| <b>其他</b><br>Others                    |   |                                  |
| 防护等级<br>Protection class               | IP21  | IP21                             |
| 重量外形尺寸(WxHxL)<br>Weight/dimensions     | 8kg / 368mm x 165mm x 450mm   | 20kg / 400mm x 230mm x 560mm     |
| 冷却方式<br>Cooling mode                   | 水冷+风冷<br>Water cooling plus air cooling   |                                  |

## 技术参数

### Technical parameters

## PST-Series RF Power Supply

| 型号<br>Model                                 | PST-RF5K-13MA   | PST-RF10K-13MA  |
|---|---|---|
| <b>输入参数</b><br>Input parameter              |   |   |
| 输入电压<br>Input voltage                       | 400V-480V±10%(3+PE,No Neutral)  | 400V-480V±10%(3+PE,No Neutral)                                      |
| 输入频率<br>Input frequency                     | 50 / 60Hz   | 50 / 60Hz   |
| 输入功率<br>Input power                         | 9KVA  | 18KVA   |
| 功率因数<br>Power factor                        | 90%   | 90%   |
| <b>输出参数</b><br>Output parameter             |   |   |
| 额定输出功率<br>Rated output power                | 5kW   | 10kW  |
| 额定负载阻抗<br>Rated load impedance              | 50Ω   | 50Ω   |
| 输出频率<br>Output frequency                    | 13.56MHz±0.5%   | 13.56MHz±0.5%   |
| 脉冲频率<br>Pulse frequency                     | 1Hz-50kHz   | 1Hz-50kHz   |
| 功率精度<br>Power accuracy                      | ±1W和设定值的±1%中的较大者<br>±1W and the greater of ±1% of the setting value                     | ±1W和设定值的±1%中的较大者<br>±1W and the greater of ±1% of the setting value |
| CEX模式<br>CEX mode                           | 支持<br>Supported   | 支持<br>Supported   |
| 调谐时间<br>Tuning time                         | <10ms   | <10ms   |
| <b>环境</b><br>Environment                    |   |   |
| 工作环境温度<br>Operating temperature             | +5°C~+45°C  | +5°C~+45°C  |
| 存储环境温度<br>Storage temperature               | -25°C~+55°C   | -25°C~+55°C   |
| 相对湿度<br>Relative humidity                   | 5-85%无冷凝<br>5-85%No condensation  | 5-85%无冷凝<br>5-85%No condensation                                    |
| 气压<br>Atmospheric pressure                  | 80 - 106kPa   | 80- 106kPa  |
| <b>通信接口</b><br>Communication interface      |   |   |
| 接口<br>Interface                             | 模拟量输入, RS232/RS485,Profibus, DeviceNet<br>Analog input, RS232/RS485,Profibus, DeviceNet |   |
| <b>其他</b><br>Others                         |   |   |
| 防护等级<br>Protection class                    | IP20  | IP20  |
| 重量<br>Weight                                | 30kg  | 50kg  |
| 外形尺寸(Wx HxL)<br>Dimensions                  | 483mm×130mm×500mm   | 483mm x 175mm x 650mm   |
| 效率(50Ω)<br>Efficiency (50Ω)                 | >78%  | >75%  |
| 冷却方式<br>Cooling mode                        | 水冷<br>Water cooling   | 水冷<br>Water cooling   |
| 冷却介质温度<br>Temperature of the cooling medium | 5°C~35°C  | 5°C~35°C  |

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