



## Electrolytic hydrogen production DC Power Supply

### 电解制氢专用直流电源

采用基于 IGBT 功率器件的模块化系统设计与核心控制算法，全面满足制氢电源对可靠性、效率、谐波等技术指标的要求。

Adopting a modular system design and core control algorithm based on IGBT power devices, it fully meets the technical requirements of hydrogen production power supply for reliability, efficiency, harmonics, and other technical indicators.

STH-I-□V-DC□A

选型说明 Model definition

输出电流  
Output current

输出电压  
Output voltage

系列：“I”，IGBT 系列，“S”SCR 系列  
Series: “I”, IGBT series, “S” SCR series

直流制氢电源  
DC hydrogen production power supply

## 特征

### Features

- 多级保护策略，保障设备和系统安全。
  - 良好的响应时间与动态调节时间。
  - 支持恒压、恒流、恒功率切换，快速的动态响应能力。
  - 低谐波电流、高功率因素、高效率，电能质量优。
  - N+1 冗余设计，优异的系统可靠性。
- Multi level protection strategy to ensure equipment and system security.
  - Good response time and dynamic adjustment time.
  - supports constant voltage, constant current, and constant power switching, with fast dynamic response capability.
  - Low harmonic current, high power factor, high efficiency, and excellent power quality.
  - N+1 redundant design, excellent system reliability.

## 技术参数

### Technical parameters

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输出电压 output voltage	DC 0-850V (可定制) (Customizable)
输出电流 Output current	DC 2kA,4kA,6kA,8kA,10kA,12kA,14kA,16kA (可定制) (Customizable)
输出电压精度 Output voltage accuracy	≤0.5%FS
输出电流精度 Output current accuracy	≤0.5%FS
输出电流纹波 Output current ripple	≤4%FS
最大转化效率 Maximum conversion efficiency	≥98.0%
交流谐波电流 AC harmonic current	≤3%
功率因数 power factor	≥0.99
冷却方式 Cooling method	水冷+风冷 Water cooling+air cooling
输出控制方式 Output control mode	恒压、恒流、恒功率 Constant voltage, constant current, constant power
防护等级 Protection level	IP43(根据用户需求调整) (adjusted according to user needs)
可选通讯 Optional communication	Modbus RTU/TCP、Profibus DP、Profinet等
动态响应时间 Dynamic response time	≤100ms
噪声 Noise	≤70dB (距离<1m) (Distance<1m)

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