

HSW68-80-900-30000

Programmable DC Power Supply

High-power programmable DC source for laboratory, production-line and industrial automatic test systems

0-80 V

0-900 A

30 kW

RS232 / RS485 / CAN / LAN / USB



Front view with clean cut-out treatment for catalog presentation

Output Range

Voltage 0-80 V
Current 0-900 A
Power 30 kW

Control

MPU control, front-panel operation, remote programming and automatic test support.

Interfaces

RS232, RS485, USB, CAN, LAN and external trigger I/O.

Protection

OVP, OCP, OTP and short-circuit protection for safe operation.



Product Overview

The HSW68 series programmable DC power supply is designed for adjustable DC voltage and current output in research laboratories, production-line testing and industrial power applications. The system uses high-frequency switching power technology to reduce heat generation and improve efficiency, while providing stable output control, protection functions and remote communication interfaces.



Rear connection view - high-current terminal, SENSE, system bus, RS232, RS485, CAN, LAN and USB interfaces

Key Capabilities

- **Low ripple and low noise output** for stable laboratory and production testing.
- **High resolution setting and readback** with 10 mV / 10 mA resolution for this configuration.
- **Constant voltage / constant current auto crossover** for flexible DUT protection and power control.
- **Remote sensing** helps compensate voltage drop on load cables.
- **Remote communication** through RS232, RS485, CAN, LAN and USB for automatic test systems.
- **SCPI and MODBUS-RTU compatible command set** for integration with user-developed software.
- **LIST, RAMP and timer functions** for sequence output and simple automated test tasks.
- **Protection functions** include over-voltage, over-current, over-temperature and short-circuit protection.

Series configuration note

The HSW series can be configured across different voltage, current and power levels. The supplied configuration information for this catalog is prepared around an 80 V / 900 A / 30 kW system. For final quotation, confirm input power, output range, cabinet quantity, parallel mode, software requirements, documentation and acceptance criteria.

Technical Specifications

The following specification table is organized from the supplied user manual and translated into English for catalog use. Final production configuration should be confirmed before ordering.

Model / configuration	HSW68-80-900-30000, 80 V / 900 A / 30 kW configuration
AC input	AC 380 V +/-10%, 50 Hz
Output voltage	0-80 V
Output current	0-900 A
Output power	30 kW
Over-voltage protection	0.1-96 V
Over-current protection	0.1-1080 A
Load regulation - voltage	0.2% F.S.
Load regulation - current	0.2% F.S.
Line regulation - voltage	0.1% F.S.
Line regulation - current	0.1% F.S.
Setting resolution	Voltage 10 mV; current 10 mA

Readback resolution	Voltage 10 mV; current 10 mA
Setting accuracy	Voltage 0.2% + 150 mV; current 0.15% + 150 mA
Readback accuracy	Voltage 0.2% + 150 mV; current 0.15% + 150 mA
Ripple / noise	Voltage 250 mVrms; current 300 mArms, 5 Hz-5 MHz
Rise time	No load <=100 ms; full load <=200 ms
Fall time	No load <=8 s; full load <=60 ms
Dynamic response	Voltage <=5 ms
SENSE compensation	2 V
Display	4.3 inch TFT-LCD screen
Protection	OVP, OCP, OTP protection
Communication	RS232, RS485, USB, CAN, LAN
Other I/O	External trigger TRIG IN / OUT

Operating and Mechanical Information

Operating environment	Indoor use, 0-40 deg C, 10%-85% RH
Storage environment	Indoor storage, -20-70 deg C, 10%-90% RH
Dimensions	Single power module reference: 440 mm W x 600 mm D x 132 mm H; multi-unit cabinet layout to be confirmed
Weight	Approx. 26 kg per power module; multi-unit cabinet weight depends on final integration

Important: Specifications should be verified against the confirmed order model, cabinet integration method, parallel configuration, input power requirement and acceptance documents before production.

System Configuration and Applications



Multi-unit cabinet system reference

Typical Applications

- Research laboratory DC power source and device verification.
- Production-line product testing and aging test power supply.
- Battery, motor, electronics and industrial load testing where adjustable voltage or current is required.
- Automatic test system integration with PC control and remote communication.

Information Needed for Quotation

- Required voltage, current and total power.
- Single-unit or parallel multi-unit configuration.
- AC input power and site power condition.
- Communication interface and software control needs.
- Cabinet, copper busbar, distribution box and safety document requirements.



Technical Inquiry and Configuration Support

KINGPO can support model confirmation, cabinet integration, interface selection and documentation preparation for programmable DC power supply projects.

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