



MPS-100 Series

High precision programmable DC power supply

Features

- List sequence programming function
- LED display brightness adjustable
- Resolution of voltage 1mV and current 0.1mA, high-precision 5-bit display
- Visual display of voltage, current, and power
- There are two ways to set voltage and current: a numeric keyboard and a knob
- Nine sets of preset storage functions, convenient and fast
- Output switch control for easy control
- Intelligent temperature controlled fan makes your environment quieter
- The knob adopts a coding switch, which is convenient and fast to use, has anti misadjustment function, and has a longer service life
- Voltage and current range setting function
- Button sound on/off function
- One click initialization function

A High precision display



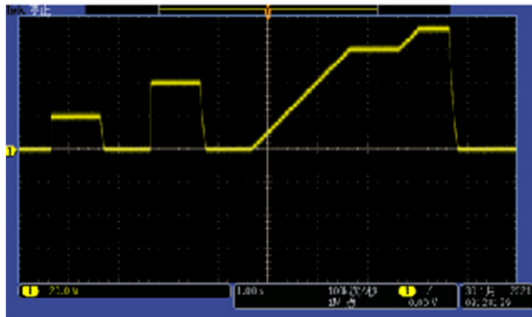
5-bit display of voltage, current, and power, with high resolution of 1mV/0.1mA

B Nine preset storage



Commonly used voltage and current can be saved in 9 sets of memory for users to conveniently and quickly access and use

C Sequence programming



Support for single machine list editing and output function

D Key locking function



Press and hold the "ESC" button for 2 seconds, and the number buttons on the front panel will be locked to prevent accidental operation

E Power initialization



One click power restoration initialization setting function

F Intelligent fan



The fan automatically starts and shuts down, intelligently monitors temperature, and can effectively reduce noise

G Voltage & current range settings



The voltage and current values can only be adjusted within the interval range

H OVP/OCP protection



Support users to set an overvoltage/overcurrent protection point. If the voltage/current of the tested object exceeds this protection point, the power output will be turned off.

I Maintain settings for power on parameters



Save settings parameters before shutdown

J Power on output status setting



Power on output status setting function

K Buzzer sound setting



The button sound can be turned on or off

L Brightness setting



Support brightness setting, rotate the knob left and right to modify parameters, with "1" being the darkest and "6" being the brightest

M Optional communication interface



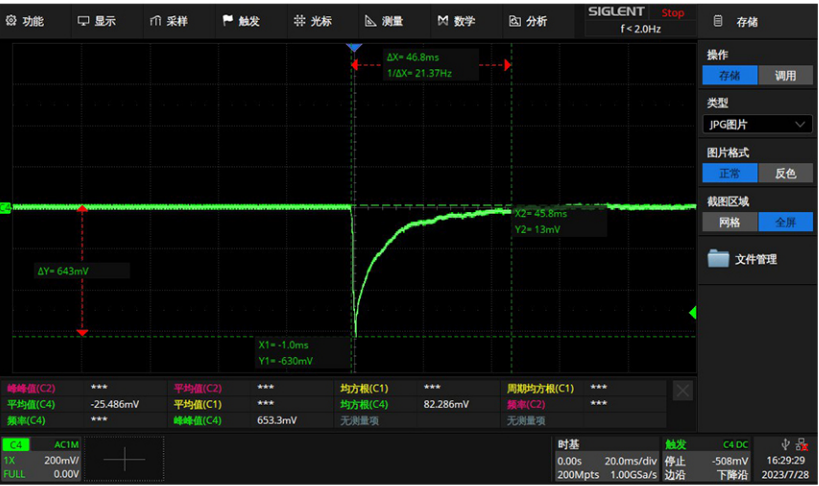
Optional RS-485 and RS-232 communication interfaces. Supports both SCPI and modbus protocols

N With temperature monitoring function



Can view the internal temperature of the power supply

Dynamic response testing

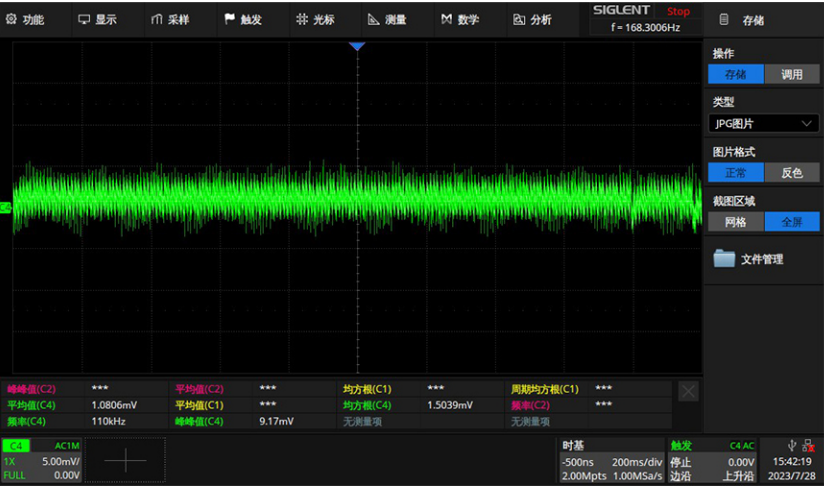


0-5A



5-0A

Ripple test

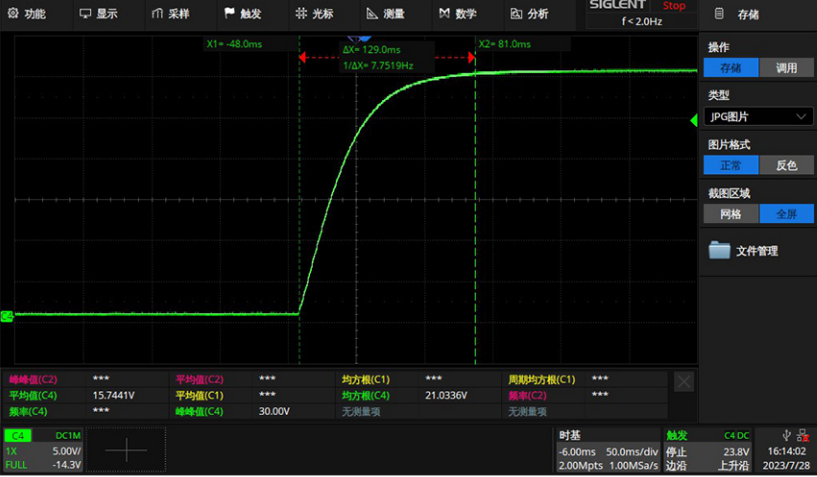


Low ripple and low noise

Rise time test

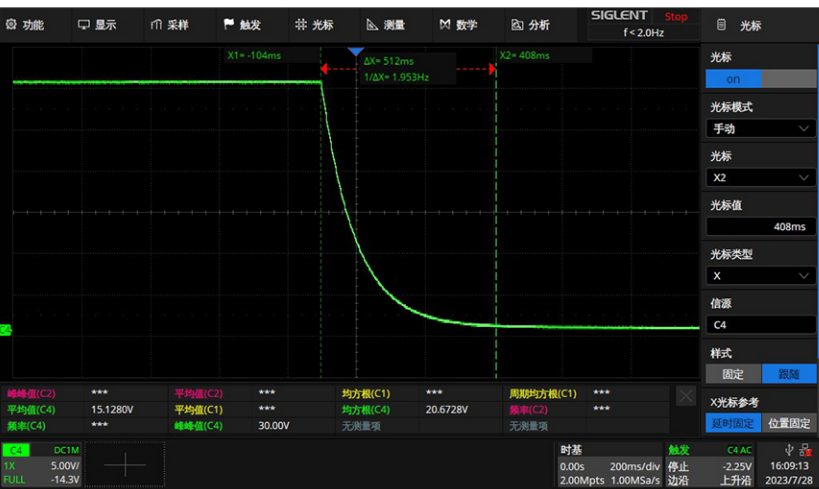


Loaded ascent



No load rise

Fall time test



Empty descent



Full load drop

Panel Introduction



- ① Display screen ② Number keys and knobs ③ function keys
④ Connecting terminal ⑤ Power switch



- ① RS-232+485(optional) ② Cooling fan
③ Power input socket ④ Grounding

技术参数

Model		MPS-100	MPS-101	MPS-100C	MPS-101C
Rated output voltage		0~30V	0~60V	0~30V	0~60V
Rated output current		0~5A	0~3A	0~5A	0~3A
Rated output power		150W	180W	150W	180W
Load regulation rate	Voltage	0.05%+8mV	0.05%+5mV	0.05%+8mV	0.05%+5mV
	Current	0.1%+5mA	0.1%+5mA	0.1%+5mA	0.1%+5mA
Power regulation rate	Voltage	0.05%+8mV	0.05%+5mV	0.05%+8mV	0.05%+5mV
	Current	0.1%+5mA	0.1%+5mA	0.1%+5mA	0.1%+5mA
Setting resolution	Voltage	1mV	1mV	1mV	1mV
	Current	0.1mA	0.1mA	0.1mA	0.1mA
Read back resolution	Voltage	1mV	1mV	1mV	1mV
	Current	0.1mA	0.1mA	0.1mA	0.1mA
Setting accuracy (25°C±5°C)	Voltage	≤0.1%+2digits	≤0.1%+2digits	≤0.1%+2digits	≤0.1%+2digits
	Current	≤0.2%+3digits	≤0.2%+3digits	≤0.2%+3digits	≤0.2%+3digits
Read back accuracy (25°C±5°C)	Voltage	≤0.1%+2digits	≤0.1%+2digits	≤0.1%+2digits	≤0.1%+2digits
	Current	≤0.2%+3digits	≤0.2%+3digits	≤0.2%+3digits	≤0.2%+3digits
Ripple and noise (25°C±5°C)	Voltage	1.5mVrms	2mVrms	1.5mVrms	2mVrms
	Current	3mAms	3mAms	3mAms	3mAms
temperature coefficient	Voltage	300ppm	300ppm	300ppm	300ppm
	Current	300ppm	300ppm	300ppm	300ppm
Machine size (W*H*D)	mm	215*95*300	215*95*300	215*95*300	215*95*300
Packing size (W*H*D)	mm	310*200*420	310*200*420	310*200*420	310*200*420
Net weight	kg	6.7	7.2	6.7	7.2
Gross weight	kg	7.8	8.3	7.8	8.3
Standard interface		—		RS-232+RS-485	



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