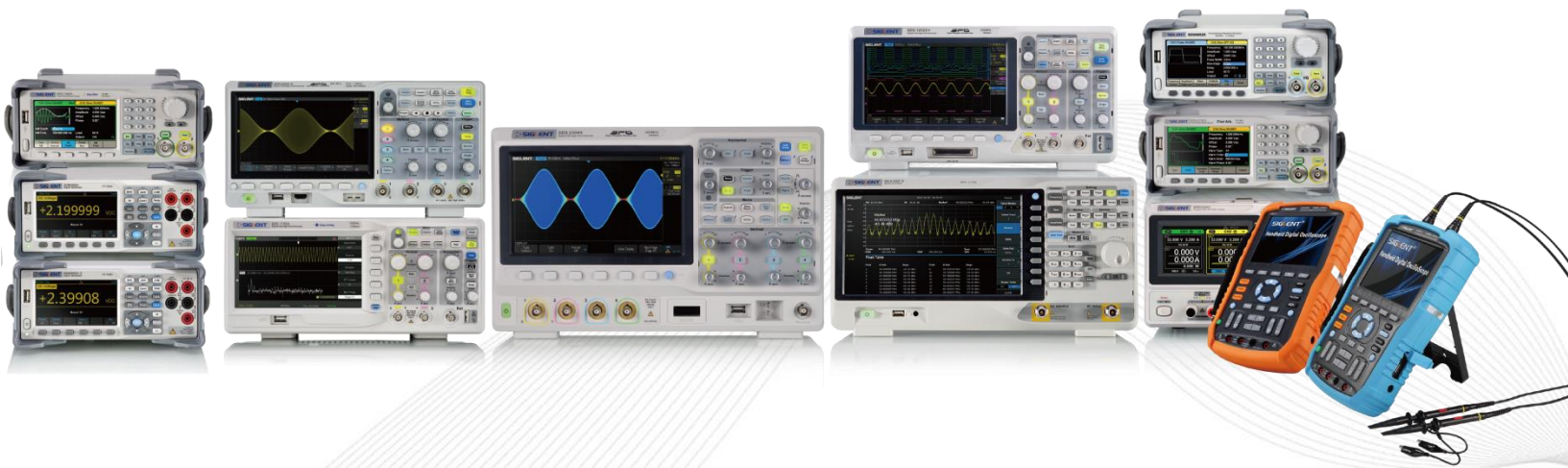




The Best Value in Electronic Test & Measurement

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c. Doctor Trueta, 44 bajos - 08005 Barcelona/Spain

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SPD1168X Series

Programmable DC power Supply



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SPD1168X Key Features

- Single path high-precision programmable voltage output: 16 V/8 A, total power up to 128 W
- 2.8 inch true color TFT- LCD 240 *320 screen
- Stable, reliable, Low ripple and noise: ≤ 350 μ Vrms/3 mVpp; < 2 mArms
- 5 digit voltage, 4 digit current display, minimum resolution: 1 mV/1 mA



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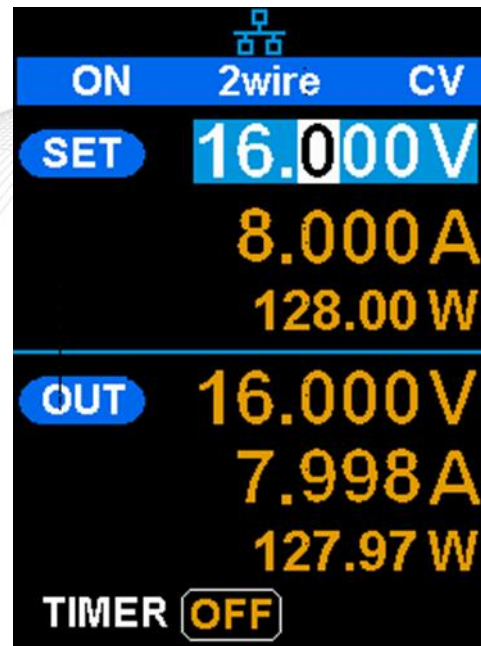
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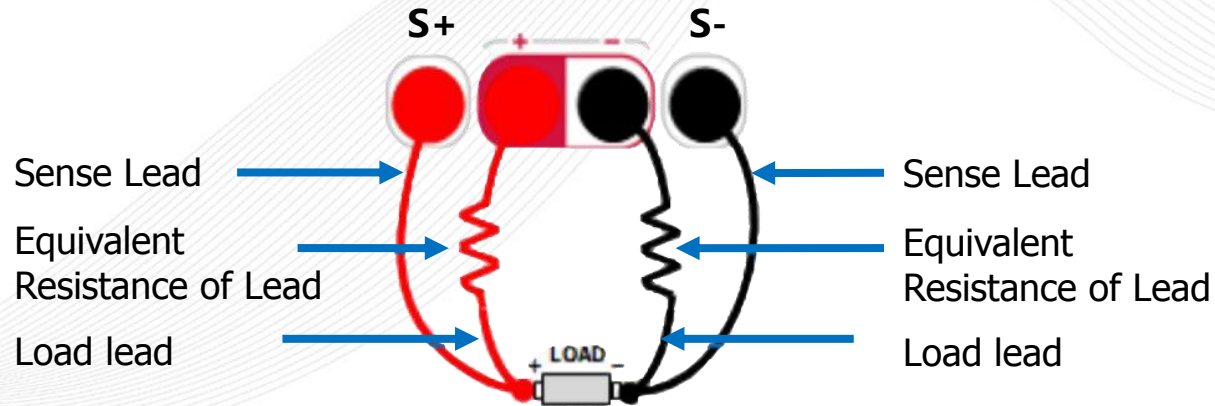
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4-wire SENSE Compensation Function

■ In the 4-wire SENSE compensation output mode: By using a separate measurement circuit, the supply can more accurately compensate for any voltage drops due to high resistance connections or long cables. Maximum compensation voltage is 1 V.



Linear Power Supply Characteristics



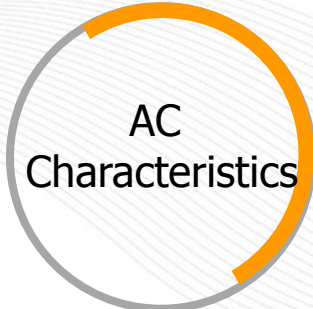
Accuracy and Resolution

- Voltage / Current Resolution
- Program Accuracy
- Read-back Accuracy



Good Stability

- Load Regulation
- Line Regulation
- Temperature Coefficient



AC Characteristics

- Ripple & Noise

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SPD1168X—Accuracy and Resolution

Voltage: $\pm(0.03\%+10\text{ mV})$
Current: $\pm(0.3\%+10\text{ mA})$

Program Accuracy Determines the Set Value and the Standard Value of Proximity

Voltage: $\pm(0.03\%+10\text{ mV})$
Current: $\pm(0.3\%+10\text{ mA})$

Read-back Accuracy Determines How Close the Internal Instrumentation is to the Standard Value

1mV/1mA

The Resolution Determines the Minimum Amount of Output that can be Adjusted

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SPD1168X—Stability

■ Load Regulation, Power Regulation and Temperature Coefficient

- Load regulation is the response of the power load changes caused by changes in the power output

Constant Voltage Mode:

Load Regulation: $\leq 0.01\% + 2 \text{ mV}$

Constant Current Mode:

Load Regulation: $\leq 0.2\% + 3 \text{ mA}$

- The power regulation rate reflects the power supply input voltage changes, the ability to provide a stable output voltage

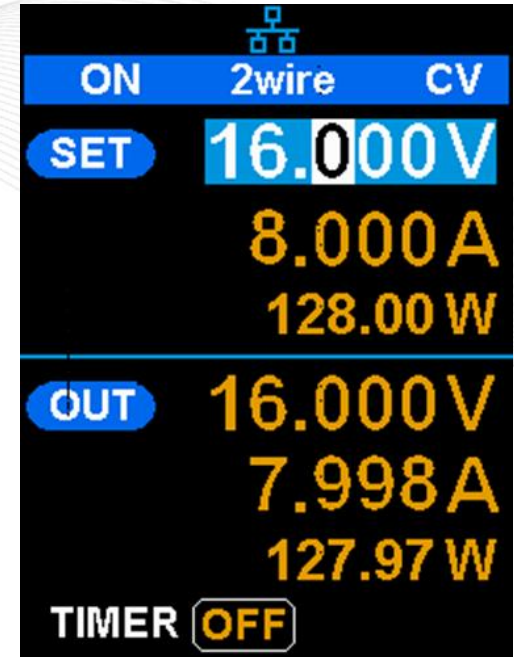
Power Regulation: $\leq 0.2\% + 3 \text{ mV}$

- Temperature coefficient is the response of voltage and current with temperature changes.

SPD1168X has a stable temperature coefficient

Voltage: $\pm(0.01\% \text{ of reading} + 3 \text{ mV})$

Current: $\pm(0.01\% \text{ of reading} + 3 \text{ mA})$



SPD1168X—Low Ripple and Noise

- Ripple & Noise: DC power output AC spurious components
- Constant Voltage Mode:
 $\leq 350 \text{ uVrms}/3 \text{ mVpp}$
- Constant Current Mode
 $\leq 2 \text{ mArms}$



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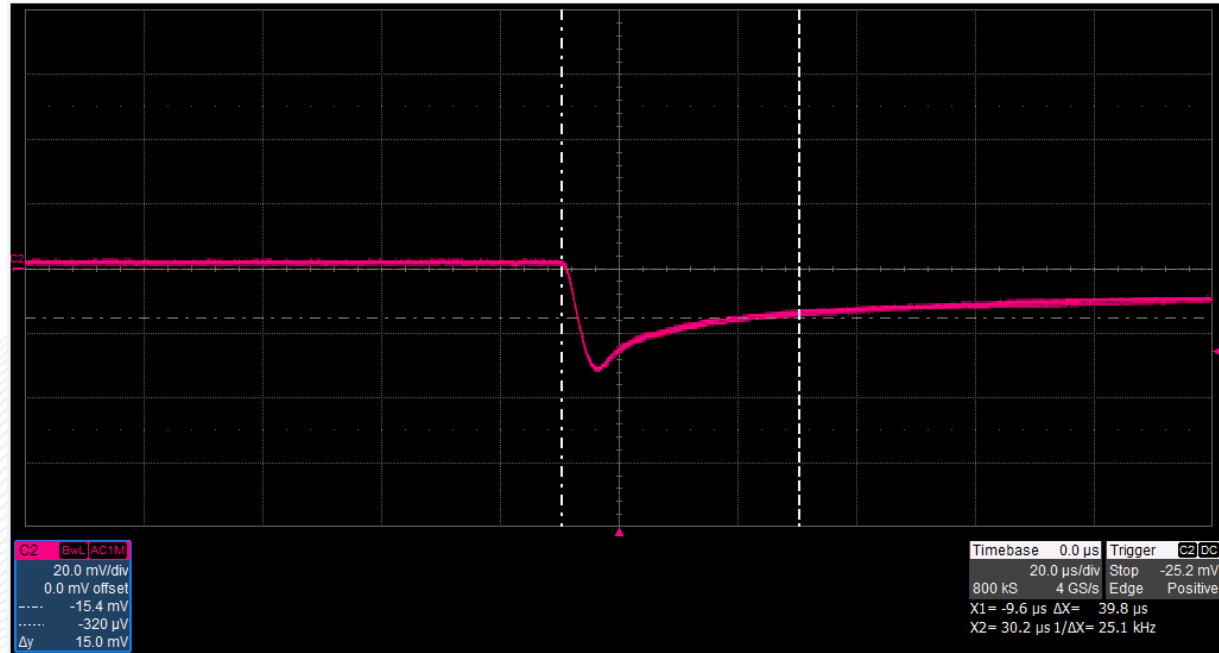
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SPD1168X—Fast Transient Response Time

- Response Time < 50 μs
- When the load or setting changes, the output can be stabilized in a very short period of time as a stable DC



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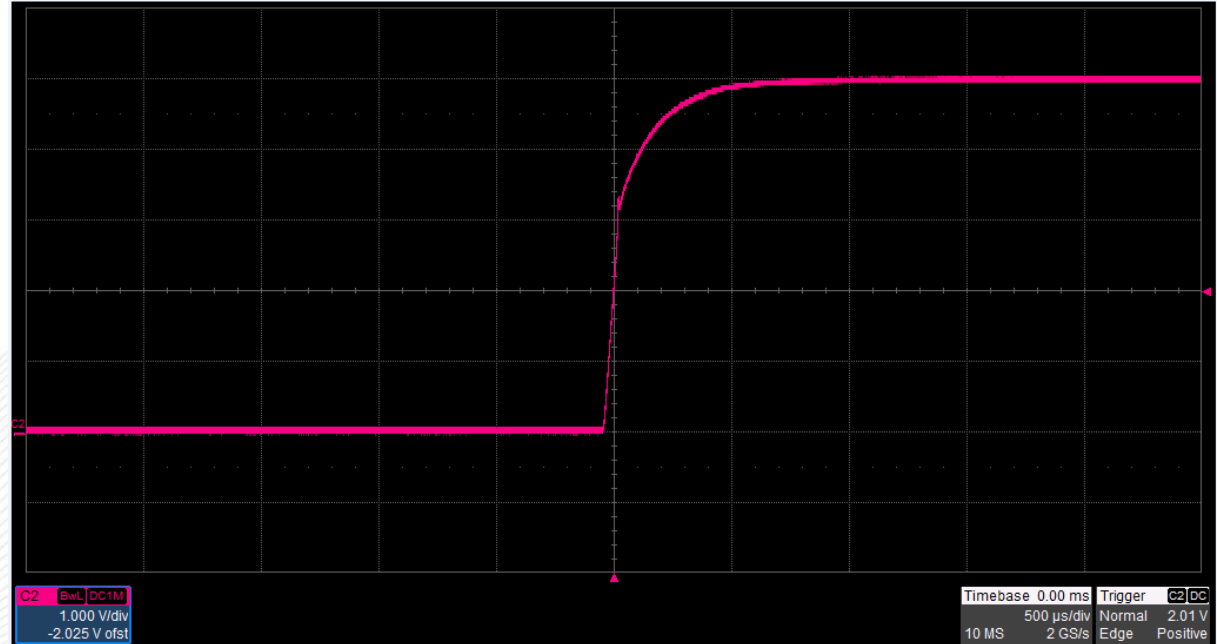
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SPD1168X Low Voltage Overshoot

- SPD1168X outputs voltage without overshoot, effectively protecting the back-end electrical equipment



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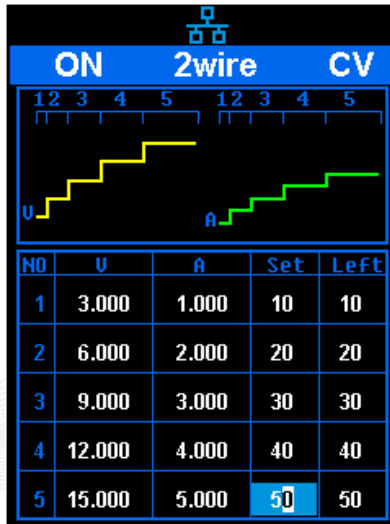
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Panel Displays the Timing Output

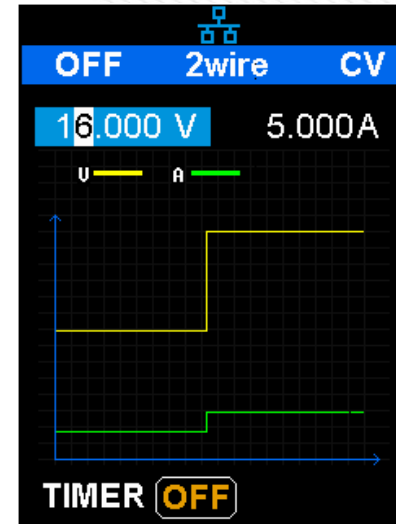
Timing Output

Timer can save five sets of timing settings, each set independent of each other, according to need, set arbitrary parameters within the voltage and current values. The timer supports continuous output, and the longest time of each group is 1000s.



Real Time Wave Display

The SPD1168X can graphically display the output voltage and current of the channel in real time. The SPD1168X can also be interfaced with the PC software EasyPower to achieve complete communication and control requirements.



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Communication and Remote Control

- SPD1168X supports USB device and LAN, meeting the communication needs of different environments
- Supports standard SCPI command set and LabView driver to meet the automation needs



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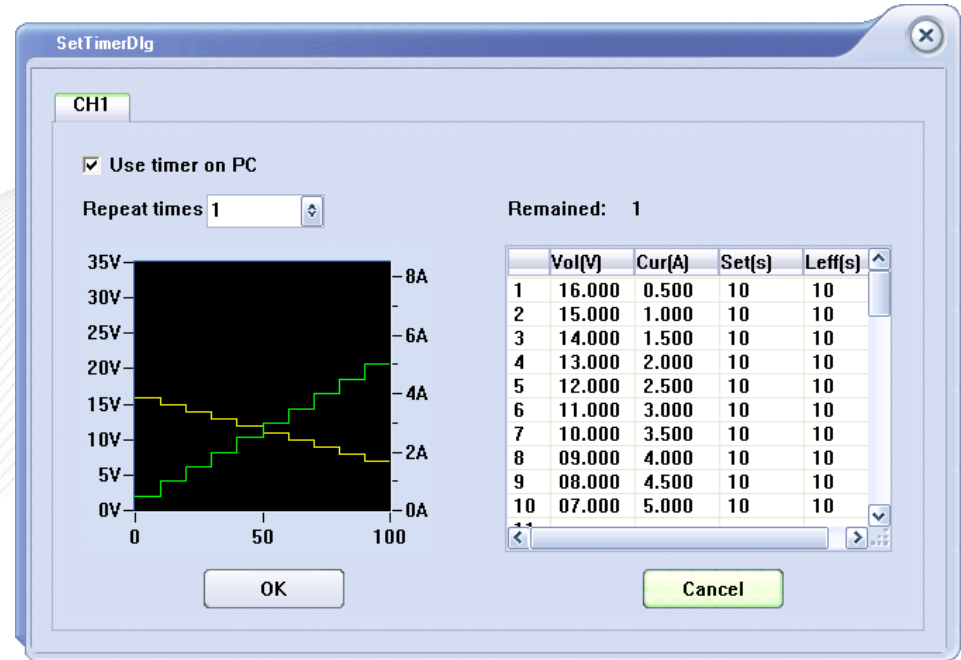
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Support upper computer control

- SPD1168X PC software can easily control the device by USBTMC or LAN



Thank You

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