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Sxhlseller XY-FZ35

Sxhlseller XY-FZ35 Adjustable DC Electronic Load Tester User Manual

Model: XY-FZ35 | Brand: Sxhlseller

1. Introduction

The Sxhlseller XY-FZ35 is an adjustable DC electronic load module designed for testing power supplies, batteries, and other DC electronic devices. It features a display for voltage, current, power, capacity, and discharge time, and includes intelligent temperature-controlled fan cooling and various protection functions.



Figure 1: Front view of the Sxhlseller XY-FZ35 Electronic Load Tester, highlighting its display capabilities.

2. Safety Information

- Ensure the input voltage is within the specified range of DC 5.0-30.0V.
- Do not exceed the maximum discharge power of 35W or current of 5.00A.
- Observe polarity when connecting the device to avoid damage. The device includes reverse polarity protection, but proper connection is always recommended.
- Operate the device in a well-ventilated area to prevent overheating. The intelligent fan will activate automatically.
- Keep the device away from moisture and extreme temperatures.
- Do not attempt to disassemble or modify the device. Refer all servicing to qualified personnel.

3. Product Features

- **Adjustable Parameters:** Set discharge capacity (OAH) and maximum discharge time (OHP) for unattended aging and discharge tests.
- **Intelligent Cooling:** Features a temperature-controlled fan that activates automatically when power exceeds 10W or temperature surpasses 40°C.
- **Multi-Parameter Display:** Shows current (A), voltage (V), power (W), capacity (Ah), and discharge time. Capacity and discharge time are recorded automatically.
- **Data Set Functions:** Supports adjustable load functions, allowing selection of performance value and operating time phases.
- **Precise Adjustment:** Utilizes a rotary coded potentiometer for precise current adjustment down to 0.01A. Current can be locked to prevent accidental changes.



Figure 2: Rear view showing the intelligent cooling fan and its auto-control feature.

4. Setup

1. **Unpacking:** Carefully remove the XY-FZ35 electronic load module from its packaging.
2. **Connections:**
   - Connect the DC power source (5.0-30.0V) to the input terminals (marked "IN" or "+/"). Ensure correct polarity.
   - Connect the device under test (e.g., battery, power supply output) to the load terminals (marked "L+" and "L-").
   - For TTL serial communication, connect the RX, TX, and GND pins to your communication interface (optional).
3. **Initial Power On:** Once connections are secure, press the "ON/OFF" button to power on the device. The display

will illuminate.



Figure 3: Connection diagram for the XY-FZ35 module, illustrating input and load connections.

5. Operating Instructions

5.1 Basic Operation

1. **Power On/Off:** Press the yellow "ON/OFF" button to toggle the electronic load on or off.
2. **Display Switching:** Short press the rotary coded potentiometer key to cycle through display modes: Current, Voltage, Power, Capacity, and Time.
3. **Adjusting Current:** Rotate the potentiometer knob to adjust the load current. The current can be adjusted with 0.01A precision.
4. **Locking Current:** To prevent accidental changes, press and hold the potentiometer knob for a few seconds to lock the current setting. Repeat to unlock.



Figure 4: Display showing real-time current and voltage readings during operation.

5.2 Setting Parameters (OAH, OHP, Protections)

To enter parameter setting mode, long press the rotary coded potentiometer key when the device is powered on.

- **OAH (Over-Capacity-Hour) Setting:** This sets the maximum discharge capacity. Once this limit is reached, the load will turn off.
- **OHP (Over-Hour-Protection) Setting:** This sets the maximum discharge time. Once this time limit is reached, the load will turn off.
- **OVP (Over-Voltage Protection):** Standard 25.2V (adjustable).
- **OCP (Over-Current Protection):** Standard 5.10A (adjustable).
- **OPP (Over-Power Protection):** Standard 35.5W (adjustable).
- **UVP (Under-Voltage Protection):** Standard 1.5V (adjustable).

Use the potentiometer knob to adjust values and short press to confirm and move to the next parameter. Long press to exit setting mode.



Figure 5: Setting OAH (Max Capacity) and OHP (Max Time) limits for discharge tests.

6. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and dust when not in use.
- **Fan Inspection:** Periodically check the cooling fan for any obstructions or excessive dust buildup. Clean gently with compressed air if necessary.

7. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Incorrect input voltage or polarity.	Verify input voltage is DC 5.0-30.0V and connections are correct.
Load does not activate.	"ON/OFF" button not pressed, or protection triggered.	Press "ON/OFF" button. Check OVP, OCP, OPP, UVP settings and ensure they are not being triggered.
Fan not running.	Power output is below 10W or temperature is below 40°C.	This is normal operation. The fan is temperature-controlled and will activate when needed.
Inaccurate readings.	Poor connections or device malfunction.	Ensure all connections are secure. If problem persists, contact support.

8. Specifications

Model	XY-FZ35
Input Voltage	DC 5.0-30.0 V (with reverse polarity protection)
Load Current	0.00-5.00 A
Discharge Power	Max 35 W
Current Accuracy	± (1% + 3 digits)
Voltage Accuracy	± (0.5% + 1 digit)

Over-Voltage Protection (OVP)	Standard 25.2 V (adjustable)
Over-Current Protection (OCP)	Standard 5.10 A (adjustable)
Over-Power Protection (OPP)	Standard 35.5 W (adjustable)
Under-Voltage Protection (UVP)	Standard 1.5 V (adjustable)
Over-Temperature Protection (OTP)	Standard approx. 80°C (not adjustable)
Fan Speed	Intelligent, temperature-controlled hydraulic bearing fan, 8000 ± 10% RPM
Dimensions (approx.)	79mm x 39mm x 44.5mm (3.11in x 1.54in x 1.75in)



Figure 6: Approximate dimensions of the XY-FZ35 module.

9. Warranty and Support

This product comes with a standard manufacturer's warranty. For specific warranty details, please refer to the product packaging or contact your retailer.
For technical support, troubleshooting assistance, or inquiries regarding replacement parts, please contact Sxhlseller customer service through your purchase platform or the official Sxhlseller website.
Please have your model number (XY-FZ35) and purchase information ready when contacting support.

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