

PEMENOL DC USB Electronic Load Tester



Brief Intro:

The industrial-grade electronic load tester adopts long-life ball-shaped fan which has fast rotating speed and strong wind. It supports continuous discharging for non-stop work and suitable for long-period discharge or that the factory do aging test for products. It is perfect for testing the charger's output current capability, charger batch aging test, measuring battery load capacity, etc.

It can be used as ordinary electronic load, can also do USB electronic load use. With the liquid crystal display, friendly human-computer interface and excellent performance indicators, it meets a wide range of testing needs.

Highlight:

- Support heat sink
- High precision
- LCD HD display
- Support reverse connection protection
- Support over-voltage protection
- Support over-current protection
- Support under-voltage protection



- Support over temperature protection
- Support over power protection
- Multiple parameters are displayed simultaneously
- Support power-down memory function
- Support alarm function
- Automatically count working hours
- Display Input Voltage/Current/Power
- Discharging time/Discharge capacity/Temperature

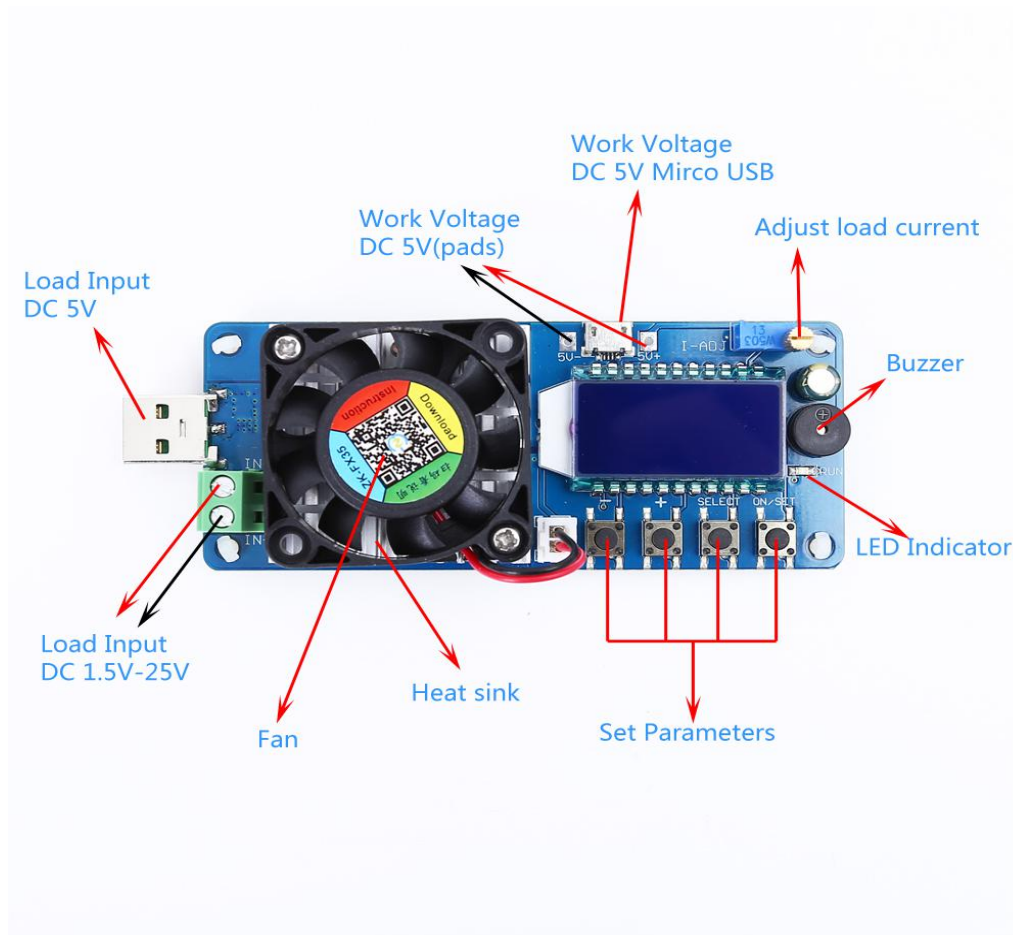
Parameters

1	Work Voltage	DC 5V
2	Load Voltage	DC 1.5V-25V
3	Work Voltage	Less 200mA
4	Load Current	5A
5	Power	35W
6	Current Accuracy	1%
7	Voltage Accuracy	1%
8	Heat Dissipation Method	Fan+Aluminum heat sink
9	Over Voltage Protection	Default 25.5V(Adjustable)
10	Over Current Protection	Default 5.10A(Adjustable)
11	Over Power Protection	Default 35.5W(Adjustable)
12	Under Voltage Protection	Default 1.5V(Adjustable)
13	Over Temperature Protection	Default 80℃(Adjustable)
14	Fan Speed	8000RPM+/-10%



15	Work Temperature	-40℃~85℃
16	Work Humidity	0%~95%RH
17	Size	114*43*27mm

Function:



1>.Display current A, voltage V, power W, capacity Ah and Discharge time

2>.Perfect protection mechanism

- 3>.Automatically count discharge capacity and discharge time
- 4>.Supports setting maximum discharge capacity (OAH) and maximum discharge time (OHP). (Achieve unattended for power aging test)
- 5>.Intelligent temperature controlling fan.The fan automatically starts when the power is greater than 10W or the temperature is greater than 40℃
- 6>.Rotary potentiometer for precise current adjustment to 0.01A.
- 7>.Buzzer starts to alarm and the LED indicator flashes when entering protection mode.

Protection mechanism:

- **FX35 supports reverse protection.**
- **OVP over voltage protection.**The default protection value is 25.5V. But user can modify the values as required from 1.5V to 25.5V. Screen will display OVP and flash after carrying on voltage protection and buzzer starts to alarm.
- **OCP over current protection.**The default protection value is 5.10A. But user can modify the values as required from 1.0A to 5.1A. Screen will display OCP and flash after starting over current protection and buzzer starts to alarm.
- **OPP over power protection.**The default protection value is 35.5W. But user can modify the values as required from 1.0W to 35.5W. Screen will display OPP and flash after starting over power protection and buzzer starts to alarm.
- **OTP over temperature protection.** The default protection value is 80℃. It can be modified from 40℃ to 80℃. Screen will display OTP and flash after starting over temperature protection and buzzer starts to alarm.
- **LVP under voltage protection.** The default protection value is 1.5V. But user can modify the values as required from 1.5V to 24.5V. Screen will display LVP and flash after starting under voltage protection and buzzer starts to alarm. In the battery discharge test, setting the appropriate LVP can effectively prevent the battery from being over-discharged, so as not to damage the battery.
- **OHP over timeout protection.** User can set using time from 00:01 to 99:99



minutes and also can turn ON/OFF OHP function by button 'ON/OFF' at setting mode. It is used to set work time. Screen will display OHP and flash after OHP protection and buzzer starts to alarm.

- **OAP over discharge capacity protection.** User can set discharge capacity from 00.01Ah to 99.99Ah and also can turn ON/OFF OAP function by button 'ON/OFF' at setting mode. It is used to set discharge capacity. Screen will display OAP and flash after OAP protection and buzzer starts to alarm.
- **corV calibration display voltage.**
- **corA calibration display current.**
- **LED/Buzzer Alarm:** LED indicator ON and buzzer OFF when load working; LED indicator OFF and buzzer OFF when load stop work; LED indicator keep flashing and buzzer ON when module start protection function.

3 Display Mode

- Normal Display Mode:

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Normal Display Mode		
1>.Rotate potentiometer to adjust load input current. 2>.Short press button ON/OFF to turn ON/OFF load.Long press switch mode. 3>.Short press button SELECT to switch display Load current/power/discharge capacity/discharge time at the second line. 4>.Long press button SELECT to switch load voltage&temperature at the first line. 5>.Long press button - to clear discharge capacity or discharge time when display discharge capacity or discharge time.		
ZK-FX25 Start Interface 	ZK-FX35 Start Interface 	Load Voltage & Set Load Current 
Load Voltage & Load Current 	Load Voltage & Load Power 	Load Voltage & Discharge Capacity 
Load Voltage & Discharge Time(m:s) 	Load Voltage & Discharge Time(h:s) 	Temperature & Load Current 

- 1) Long press button means holding button for more than 3 second.
- 2) Rotate potentiometer to adjust load input current.
- 3) Press button 'ON/OFF' to turn ON/OFF load.
- 4) Press and hold button 'ON/OFF' to switch normal display mode and setting mode.
- 5) Press button 'SELECT' to switch display Load current/power/discharge capacity/discharge time at the second line.
- 6) Press and hold button 'SELECT' to switch load voltage and temperature at the first line.
- 7) Press and hold button '-' to clear discharge capacity or discharge time when displaying discharge capacity or discharge time.



- Parameter Setting Mode:

Parameter Set Mode		
1>.Switch set parameter by short press button SELECT.The parameter can be OVP/OCP/OPP/OTP/LVP/OHP/OAP/corV/corA. 2>.Long or short press button + or - to set parameter value. 3>.OHP and OAP can be turn ON/OFF by short press button ON/OFF. 4>.Keep press button ON/OFF for more than 3 seconds to save parameters after setting is complete.Then exit the settings interface.		
UnderVoltage Protection 	Over Voltage Protection 	Over Current Protection 
Over Power Protection 	Over Temperature 	Turn OFF Over Timeout 
Turn ON Over Timeout 	Turn OFF Over Discharge Capacity 	Turn ON Over Discharge Capacity 
Calibration Voltage Calibration Voltage 	Calibration Current Calibration Current 	

- 1) Keep press button ‘ON/OFF’ for more than 3 seconds to enter parameter setting interface.
- 2) Switch setting parameter by press button ‘SELECT’ . The parameter can be OVP/OCP/OPP/OTP/LVP/OHP/OAP/corV/corA.
- 3) Long or short press button + or - to set parameter value.
- 4) OHP and OAP can be turn ON/OFF by short press button ‘ON/OFF’ .
- 5) Keep press button ‘ON/OFF’ for more than 3 seconds to save parameters after the setting is complete. Then exit the settings interface.



- Protection Mode:

Protection Mode		
1>.The module enters the protection mode when the load parameter exceeds the set value. 2>.Short press button ON/OFF can exit protection mode. 3>.Buzzer starts to alarm and the LED indicator flashes when entering protection mode.		
Under Voltage Protection	Over Voltage Protection	Over Current Protection
		
Over Power Protection	Over Temperature	Over Discharge Capacity
		
Over Timeout Protection	Load Connect Failure	
		

- 1) The module enters the protection mode when the load parameter exceeds the setting value.
- 2) Short press button 'ON/OFF' can exit protection mode.

Use steps:

- 1>.Connect load and work voltage.
- 2>.Set right parameters as the manual.
- 3>.Test and use.



Application:

- 1>.Load test
- 2>.Circuit test
- 3>.Battery discharge test
- 4>.Factory equipment inspection
- 5>.Ordinary load
- 6>.Power supply aging tester
- 7>.Auxiliary measurement of the quality of Micro USB charging cable
- 8>.Auxiliary measurement of the quality of type-c charging lines
- 9>.Auxiliary measurement charger Output current capability
- 10>.Charger Factory Batch Aging test use

Note:

- 1>.It can not output voltage.**
- 2>.Load terminal can not short circuit.**
- 3>.Please read user manual and description before use.**

Package:

- 1>.1pcs FX35 5A 35W Electronic Load Tester

After-Sales:

*We have always been keen to provide customers with the best quality service at the most competitive price.

*Looking forward to get progress and growth with all of you.

*For more product questions and inquiries, please send your advice to sameiyi@163.com

*Thank you for your purchase!

