

# 150W Electronic Dummy Load User Manual

This applies to the fake model sold everywhere on ebay and aliexpress!



First of all please take note this load is not capable of 150W continuous dissipation and the voltage/current reading precision is not as good as specified as shown in my review video Voltlog #108.

## Specifications

- Voltage: DC 12V±5%
- Load Type: Constant current
- Load Voltage: 0.5-60V
- Load Current: 0-10A
- Max Power: 150W
- Voltage Reading Precision:  $\pm(0.1\%+0.05\%FS)$
- Current Reading Precision:  $\pm(0.2\%+0.1\%FS)$
- Constant Current Accuracy: Current reading precision + 1d
- Noise: 25dB
- Weight: 341g(approx.)

1. Turn the load on by applying 12VDC through the center positive DC Jack.
2. Press SET to move the cursor to the desired position and use PLUS/MINUS buttons to adjust the value accordingly. When the cursor is on the V or I position you can switch between V(cutoff voltage) or I(current) adjustment.
3. Connect the dummy load using the 4-wire connection method and make sure you get the polarity right.
4. Press START, to start or stop the electronic load. The text in the upper right corner will toggle between "ON" and "OF" accordingly.
5. Press START for longer than 1s to reset the capacity measurement (Ah) and time measurement. This will also turn off the load if it was running.
6. The lower left corner will toggle this information automatically every 2 seconds: Power (W), Temperature(C), Capacity(Ah), Time(h:mm:ss). The automatic toggling of this information can be locked to a certain measurement by long pressing the SET button and PLUS button after the beep. Successive presses of the PLUS button while holding the SET button will switch through the different measurements, You can get back into AUTO toggling mode by long pressing the SET button and MINUS button after the beep. Warning: the Power (W) value is not a measured value, it is simply a value calculated from the set voltage and current which does not update over time.
7. Buzzer can be turned on or off by holding the SET button and after the beep pressing the START button.
8. All of the settings are stored in the internal EEPROM. If the power is lost and re-applied the load starts in the OFF state.
9. Fan will start working when the heatsink temperature goes over 45 degrees C and it will stop when the temperature goes below 40 degrees C.
10. When the heatsink temperature goes over 91 degrees C the load will go into thermal protection mode, it will turn off the output and the fan will continue to run until the temperature goes below 40 degrees C. Load will have to be manually started after cooling.
11. Load current will be automatically adjusted to maintain the total power under 150W. For example if the load is set for 10A and the voltage is 20V, the load current will be adjusted to 7.5A to keep the total power under 150W.