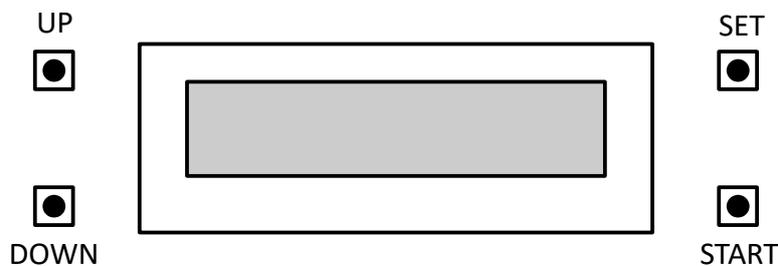


150 W Electronic Load

Device parameters and limits

Load terminals: Voltage: 1 - 60 V DC; Current: 0.01 - 10 A; Power: up to 150 W

Power supply (barrel connector): 12 V DC, 1 A



Usage

Turn load on/off

Press START to turn the device on or off. The display will show **ON** or **OF** in the upper right corner.

Set or change load value (I)

Press SET to move the underline/cursor and press UP or DOWN to change the current value **I=**, displayed in the lower right of the display, in ampere (A).

Reset Ah, Wh and timer

Press START for about 2 seconds to reset the stored, cumulated values for **Wh**, **Ah** and the timeout. For confirmation, the device will display **Reset** and beep once.

Switch display output

In the lower left of the LCD, the values for **W**, **Ah**, **Wh**, temperature (**T**) as well as the timeout value (**ct**) will each be displayed for a couple of seconds (this is called **Auto** mode).

To keep showing only one value, shortly press SET and UP repeatedly until the desired value is displayed. To return to **Auto** mode, simply press SET and DOWN shortly once.

For confirmation, the device will display **Auto** and beep once.

Settings

Enter settings by holding the SET button for about 2 seconds. The device will beep once.

To select between settings press START. To move the underline/cursor press SET.

To change the value of the selected setting, press UP or DOWN.

To leave and save settings, press START for about 2 seconds. The device will beep once.

Cut-off voltage (SV)

When the load voltage reaches this value, the device will beep once, turn itself off and display **SV** in the upper right corner of the LCD.

Timeout (c†)

After the set time is up, the electronic load will beep once, turn itself off and display c† in the upper right corner of the LCD.

LCD backlight (BL)

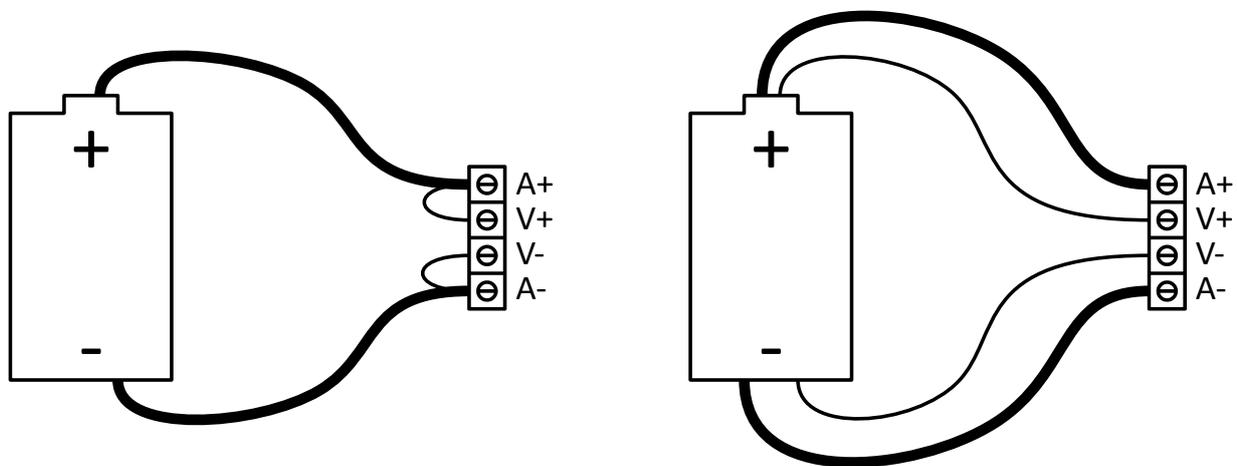
Set the brightness of the LCD screen backlight. 0 will turn it off, 4 is the default setting.

Buzzer sound (BU)

Enable or disable the on-board buzzer sound.

Connection (2-wire and 4-wire method)

The device under test (DUT) needs to be connected to the A+ and A- terminals. The V+ and V- terminals are for voltage measurement and need either to be connected to the corresponding A terminals or directly to the corresponding poles of the DUT (see image below).



The **two wire method** (see image on the left) is more convenient, but less accurate.

Note, that the A and V terminals are connected together for each polarity at the device's terminals.

The **four wire method** (see image on the right) needs more wiring but is also more precise.

Note, that the wires for voltage measurement (V terminals) are directly connected to the DUT.

Calibration

For this a reference voltage/current source and/or precise digital multimeter is need.

Calibrate voltage

Hold UP for about 8 seconds. The device will beep once and display adj_V.

Then adjust the displayed voltage value by pressing UP/DOWN (in 0.01% steps).

Calibrate current

Hold DOWN for about 8 seconds. The device will beep once and display adj_A.

Then adjust the displayer current value by pressing UP/DOWN (in 0.01% steps).

(Pressing SET will reset the voltage or current value to 0.00% (default). The device will beep once.)

Exit calibration

Pressing START will save the set value and exit the calibration screen. The device will beep once.