

# LED(TV Backlight) Tester Instructions

**Service Voltage: AC85~265V**

**Output Voltage: 0~320V**

**Output Current: 0~40mA**

## Features

- Test TV backlight without opening the screen
- LED reverse fault, not burning lamp
- Display output voltage, output current
- High brightness, high voltage output, compatible with lighting all models
- Transformer cold and heat isolation, safety without electric shock
- Lights are lighting up to protect the eyes
- The voltage current is adjusted automatically according to the number of LED lights
- Two current switching

# Instructions

1. Please wait for a while after plugging in the power supply (AC85~265V). When the voltage of the instrument shows the highest voltage of 320V, plug in the red and black test leads correspondingly, and the test can be started.
2. During the test, touch the red and black test pens to the positive and negative poles of the LED light source respectively, the light source will automatically rise slowly (3~5s) from low brightness to high brightness and then stabilize. Turn on the test leads and repeat the above process for the next test.
3. The instrument adopts the automatic adaptation of the output voltage and the automatic slow rise of the current from small to large. The lamp beads will not be burned without electric shock, and the lamp beads will not burn if accidentally connected in a short time. It may be broken down in reverse, so it is not recommended to try reverse connection of a single lamp bead.
4. LCD back light screen without disassembly test method:
  - 1). Unplug the interface sockets of the constant current board and the light bar.
  - 2). Insert the red and black test pens of the instrument into the positive and negative poles of the LED light bar interface respectively;

3). Turn on the power of the TV to make the TV (except the constant current board) power on normally; if the light bar is normal, the LCD screen, the main board and the logic board are normal, you can see the normal picture through the screen, but the brightness may be lower than the original.

4). The digital display shows the real-time voltage: the voltage of each group of light bars on the same TV should be the same. If the voltage error exceeds 3V during the test, there may be a problem with the voltage of the light bars. It can also be compared with a good light bar of the same model, and the quality of the backlight light bar can be judged by comparing the voltage.

## 5. Test skills:

- 1). During the test, the displayed voltage = open-circuit voltage, indicating that the light bar under test may be reversed or open-circuit fault;
- 2). During the test, the display circuit = 000V, indicating that the light bar or lamp bead under test is short-circuited;
- 3). When testing two objects that are not electrically connected, if the displayed voltage is significantly lower than the open circuit voltage, it means that there is a leakage current between the two objects under test.



**Do not touch both end of the probes at the same time. Please disconnect the power, when not in use.**