# LED TV Backlight Tester

# Model: XY284-GHB


## Description:

**XY284-GHB** tester with automatic parameter selection is designed to test LEDs, LED lamps, LED strips, etc. It is especially useful when repairing the backlight of monitors and TVs, as it allows you to check the LED backlight strips without disassembling the panel.

## Features:

1. LED TV screen backlighting problems are becoming more common. With this product, there is no need to remove the screen when testing LED backlight.
2. This LED Lamp LED TV Backlight Tester can find faulty LED on the tape in a few seconds with automatic voltage and current adjustment.
3. If there is something wrong with LED strip, you can change it or replace the bad LED beads.
4. The transformer is insulated from heat and cold, can protect you from the electricity, thus you can rest assured to use it.
5. Applicable to all series of lamp board and lamp strip, perfect backlight inspection and maintenance tool!
6. Built-in three-digit voltmeter and ammeter.
7. Soft start function.

## Specifications:

- Supply voltage: 85-265 V
- Output voltage: 0-320 V
- Output current: 0-35 mA (two sub-ranges - low / high current)
- Overall dimensions: 140 x 80 x 40 mm
- Probes: CAT III 1000V 10A probes with sharp tips

## Functions:

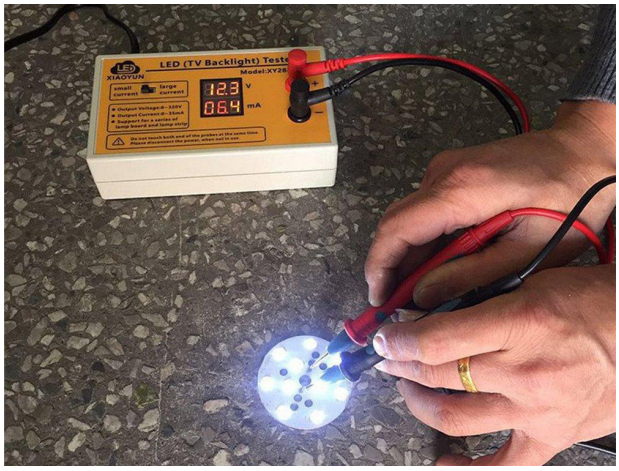
- This device will allow you to check the integrity of both a single LED and a line of up to 100 pieces connected in series. Intelligent algorithm and galvanic isolation exclude both damage to the crystal when connecting a single element at a voltage of 300 volts, and electric shock.

- A built-in voltmeter displays the operating voltage of an LED or a line of series-connected crystals. A value of 0 volts means a short circuit, and a value of 300 volts means an open circuit. The ammeter displays the current value of the current in the circuit in milliamps. When an LED is detected, the built-in microcontroller will gradually raise the current to a safe level and display the operating voltage and current on the display.

- Despite the high voltage, the device does not lead to failure of the LED even when reverse polarity is applied. The tester smoothly raises the current until the Zener effect appears on the LED and the current growth stops when a safe electrical breakdown voltage is reached without thermal breakdown.

## Usage Instructions:

1. Plug in the power supply (AC85-265V) and wait for a while; wait until the instrument voltage shows the highest voltage of 320V, then plug in the corresponding red and black test leads to start the test.
2. When testing, the red and black test leads are respectively exposed to the positive and negative poles of the LED light source, and the light source will automatically rise from slightly bright (3-5s) to high brightness. If you don't want the brightness to be low, you can open the test lead when you feel the appropriate brightness. The above process can be repeated for the next test.
3. The instrument adopts the output voltage to automatically adapt, the current is from small to large, a nd the technology is slowed down automatically. If the lamp is not burned, there is no electric shock. If the lamp is not burnt for a short time, the lamp bead will not burn, but for the low-quality single lamp with poor quality. The lamp beads may be reversed in reverse, so a single lamp bead is not recommended to be reversed.
4. LCD backlight screen free production screen test method:
   a. Open the interface socket of the constant current plate and the light bar;
   b. Insert the red and black test leads of the instrument into the positive and negative poles of the LED light bar interface respectively;
   c. Turn on the power of the TV to make the TV (except the constant current board) power on normally. At this time, if the light bar is normal, the LCD screen, the main board and the logic board are normal, you can see the normal image through the screen. Only the brightness may be slightly lower than the normal brightness of the original machine.

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