

How to connect and power YJ-BC-560H COB

Installation Instructions

Step 1: Choose a power supply

The YJ-BC-560H COB is driven by constant current.

Use constant current power supply.

For power supply with adjustable voltage and current, choose a power supply with maximum output current over 40V and maximum output current over 12A.

For non-adjustable power supply, choose a constant current power supply with output voltage over 40V and output current below 12A.

If a constant voltage supply is used, the output voltage of the supply should not exceed 40V.

We recommend to use Meanwell HLG-600H-48A type (A) with output 48V, 12.5A, and an external potentiometer to control the current.

Step 2: Connect the circuit

Connect the COB to the power supply.

For initial use connect a multimeter in series into the circuit to control the operating power.

Step 3: Turn on the radiator

Connect the COB radiator fan to the fan power supply.

Turn on the radiator and adjust the power supply at output 24V, 0.5A-1.0A.

Step 4: Check the lighting of the COB

When lighting up the COB, the light emitting surface should not face up.
Face the surface to the side or downward.

Slowly adjust the output current until the COB is lit up.
Observe the lighting of the COB.
*Avoid looking directly at the COB with the naked eye.

If all the chips in the COB are lit up, adjust the working current next.

Step 5: Confirm the output parameters of power supply

Slowly adjust the output current to increase the working power of the COB.
Check with the multimeter to ensure the maximum current does not exceed 12A.
Confirm the working current of the COB and record the output parameters of power supply.

Step 6: Reconnect the circuit

Remove the multimeter.
Reconnect the circuit.
Turn on the power supply using the parameters recorded.
Then you can power up the COB normally.