

SolarLUX Lighting Solutions

100W LED Bar

Technical Specification

Release Version: V1.0

Release Date: 2024/05/01

Main advantages LED Bar Grow

1. High efficiency and Energy saving

The 100W LED Bar is a high efficiency LED grow light. Tests have shown that LED grow lights give plants greater light intensity and grow rates than standard HPS grow lights, yet using only 30% to 50% of the electricity.

2. High PAR light output

The LED Bar is equipped SMD LEDs, with a LED efficiency of 2.6 $\mu\text{mol}/\text{J}$. The LEDs are waterproof coated and not covered by PC or glass, which improves the Bar efficiency by approximately 10%.

3. Long lifespan

The LEDs used for the LED Bar are Samsung and Epistar Horticulture LEDs. The LEDs have a waterproof coating to ensure high quality and high reliability with a long lifespan (50.000+ hours under lab conditions).

4. Plug & Play

No installation required; no reflector and ballast are required. The 100W LED Bar is a plug-and-play LED grow light. Connect the plug directly to an earthed 110 or 230 Volt socket, making installation simple and safe.

5. Waterproof

The LED Driver, LED Bar and wire connectors are IP66 waterproof. The LEDs are attached to the aluminum frame and IP65 waterproof coated.

6. Dim function

The LED Bar features a 0 - 100% dimmer, allowing the light intensity to be adjusted to the needs of plants during growth.

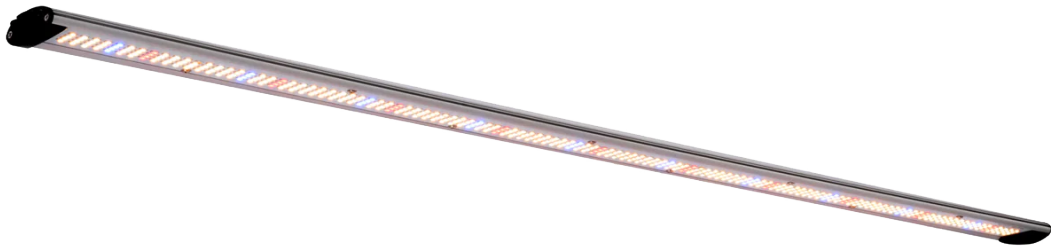
7. Advanced thermal design

The LEDs are passively cooled by the aluminum frame of the LED Bar. The aluminum PCB is directly attached to the aluminum body of the LED Bar for excellent heat dissipation. Passive LED cooling is preferred above active cooling. No moving parts are needed, which is energy efficient and requires no maintenance.

8. Environment friendly

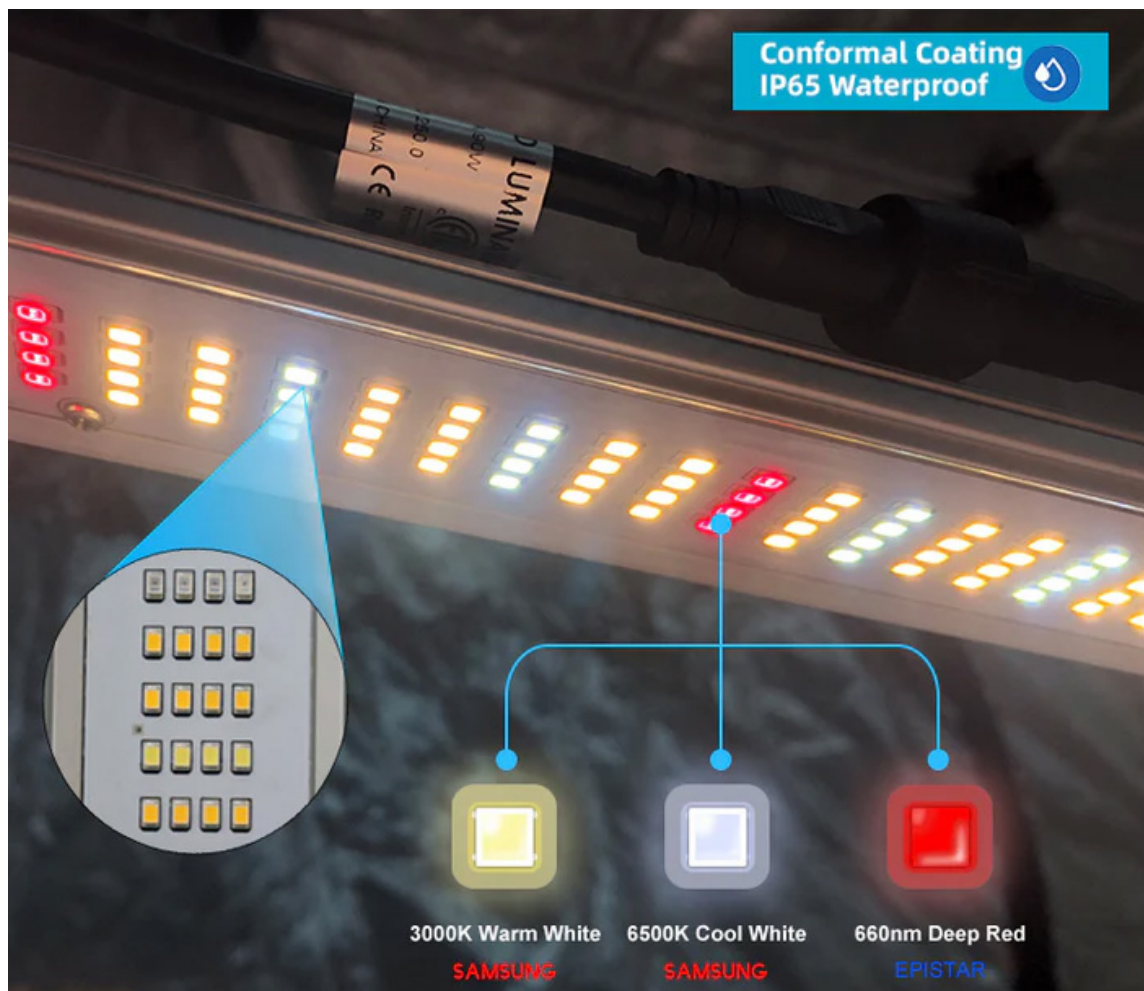
A SolarLUX LED Bar doesn't contain the harmful substance HPS & MH have; no hazardous waste to deal with which makes our earth cleaner and greener. LEDs are superior in comparison to other lighting technologies in terms of negative environmental and health effects during the manufacturing process. Producing LEDs consumes far less energy than manufacturing other lighting and it was noted the LEDs contain no mercury and few if any toxins such as iodine and lead.

Picture LED Bar

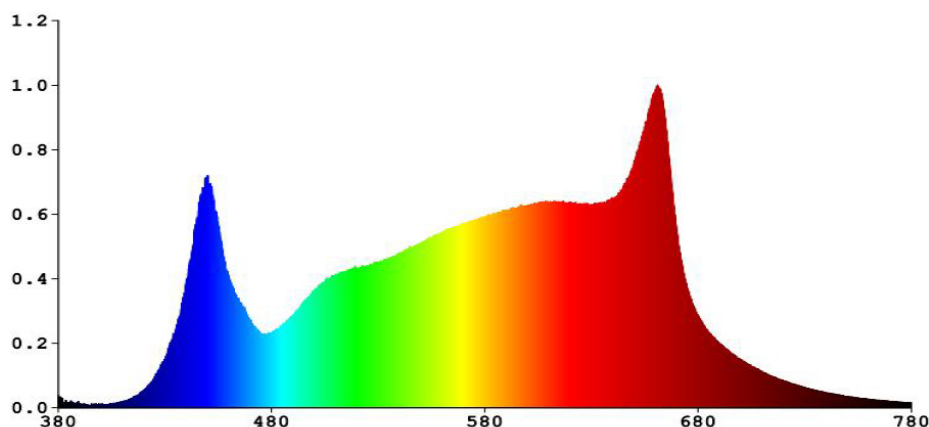


1. A SolarLUX LED Bar is suitable for indoor and greenhouse lighting.
2. The 100W LED Bar replaces 200W HPS/MH grow light.
3. Ideal for growing/vegetative phase and works well in any garden, either hydroponics or soil based.
4. Uses a broad light spectrum required for plants photosynthesis.
5. OEM/ODM or customized integrated grow lighting solutions are available on request.

Info LEDs



Spectrum LED Bar



Technical specification 100W LED Bar

Item	Value	Item	Value
LED diodes	Samsung & Epistar	HPS equivalent	200 Watt
LED amount	468 pieces	Power factor	> 90%
LED wavelength	Full-spectrum	Power consumption	~ 100 Watt
Light distribution	120° beam angle	Dim control	0 – 100%
Lifespan	Up to 50.000 hour	Voltage AC	100V – 277V
Height above plants	> 10 cm	Work frequency	50Hz / 60Hz
Lighting area	0,30 to 2,50 m2	Working environment	-20 ~ + 40°C
LED efficiency	2,6 µmol/J	Waterproof level	IP65
LED Bar size	1125*56*18 mm	Weight	2,05 Kg

Certification and Warranty of LED Bar Series



Note:

1. Select different lighting times depending on plant species.
2. Don't look into the LED light directly without wearing sunglasses.
3. Power socket should be connected to the ground/earth.
4. After sales service; 3-year limited warranty.