



Grow Lighting

4Twenty Grow Lighting

4.20 LED Bar Bloom

Technical Specification

Release Version: V1.0

Release Date: 2021/10/01

Advantages 420 LED Bar

1. High efficiency and Energy saving

The 420 LED Bar Bloom is provided with high power OSRAM LEDs with an efficacy of 2,9 $\mu\text{mol/J}$. Compared to standard HPS grow lights the 420 LED Bar does give plants more light intensity and better grow rates, yet using less than 50% of the electricity.

2. Plant growth

A far red content at 730 nm is required in order to induce the flowering of the plant. This can be used especially to adjust the perceived day length of the plant. Due to the balanced 660nm and 730nm light spectrum, plants will develop naturally, which is aimed at optimizing the harvest, both qualitatively and quantitatively!

3. Waterproof

The 420 LED Bar does have a IP65 waterproof rate. The LEDs are attached to the aluminum frame and waterproof sealed by a high light transmittance optical lens.

4. Plug & Play

No setup required; no reflector and ballast are needed. The 420 LED Bar is a plug- and play grow light. Just plug directly into a grounded AC110 or AC230 Volts power socket, which makes the installation simple and safe.

5. Daisy Chain

The 420 LED Bar is provided with a Daisy Chain connection, to interconnect multiple LED Bars. All models 420 LED Bars can be combined and connected in a Daisy Chain, to make a multiple spectrum Bar Light System. A Daisy Chain cord is included.

6. Bar Connecting Kit

With a Daisy Chain one power cord can connect several 420 LED Bars. With an optional Bar Connecting Kit up to 7 [BCK7] or up to 10 [BCK10] pieces LED Bars can be attached to two aluminum brackets to form a large and powerful 420 Bar Light System.

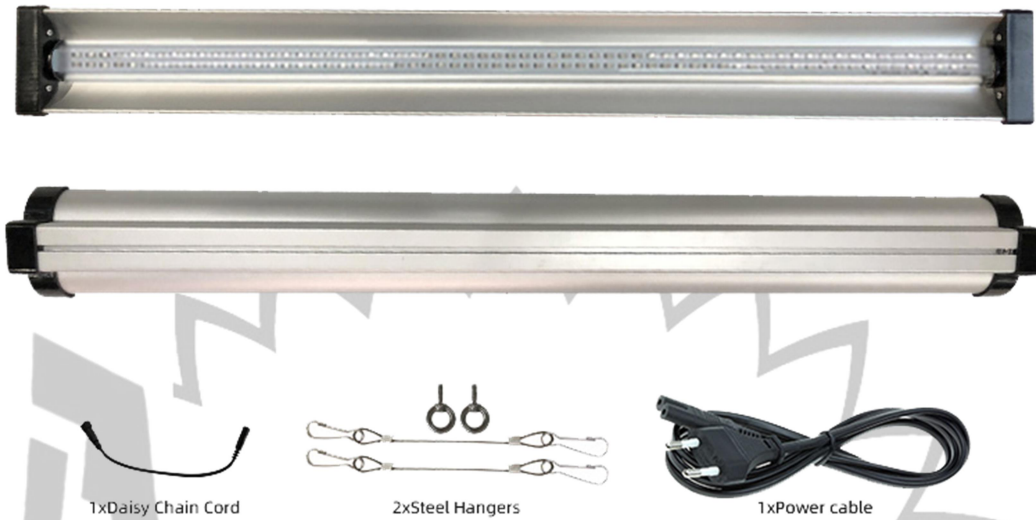
7. Advanced thermal design

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.

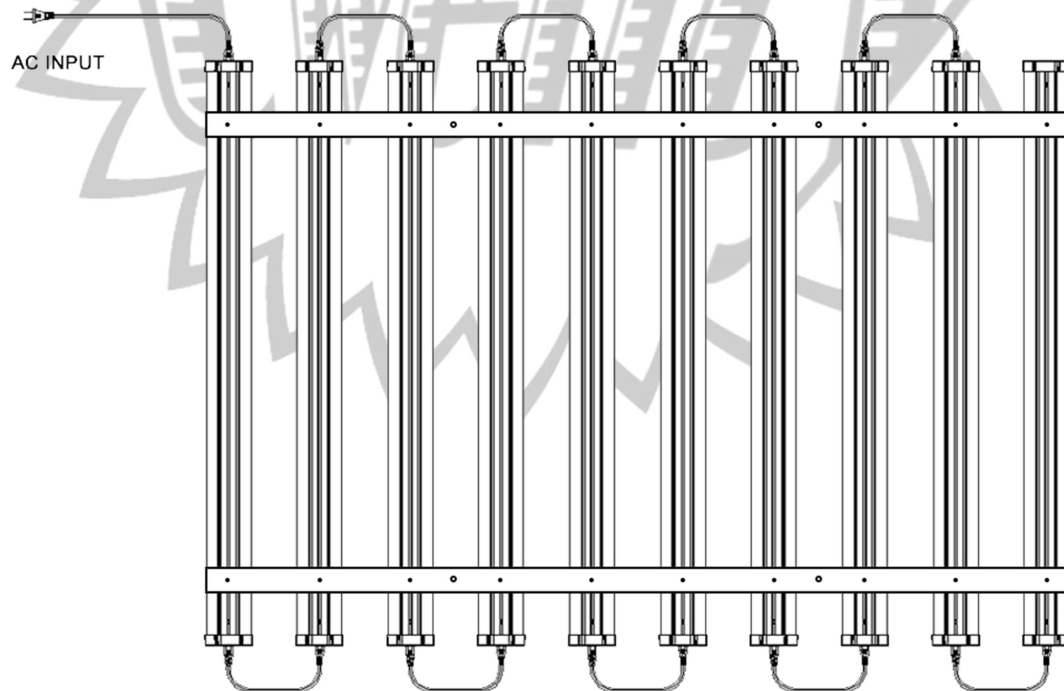
8. Environment friendly

A 4Twenty LED Light does not contain the harmful substance HPS & MH lights do. So there is no hazardous waste to deal with, which makes our earth cleaner and greener. Producing LEDs consumes far less energy than manufacturing other lighting products and also do contain no mercury and few if any toxins such as iodine and lead.

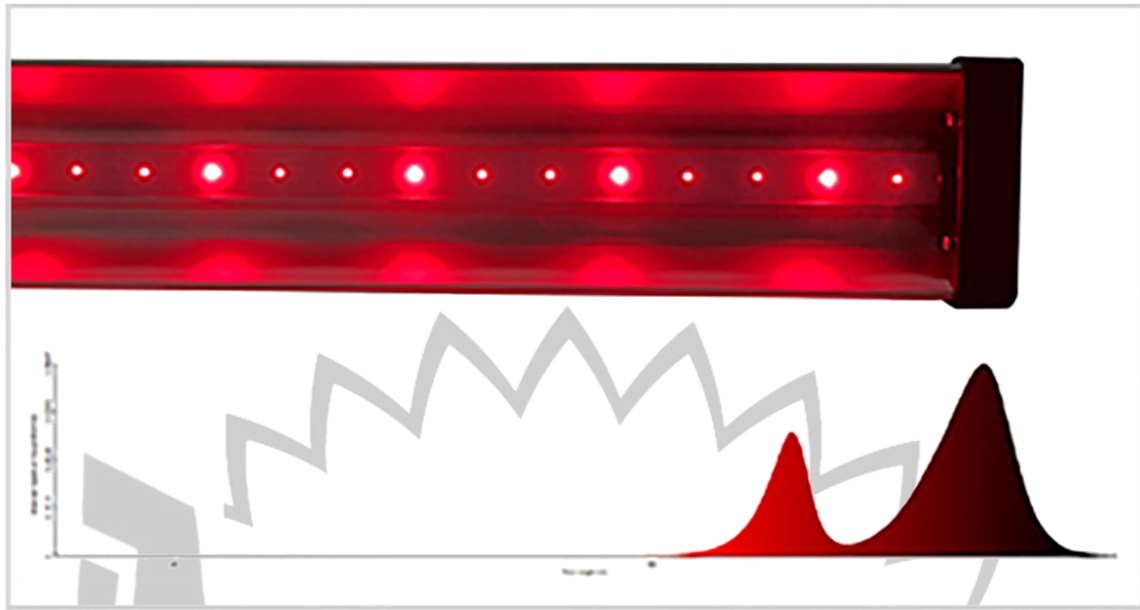
Pictures 420 LED Bar



Bar Connecting Kit [BCK10]



Spectrum 420 LED Bar Bloom



Technical specification 420-G5VB30

| Item | Value | Item | Value |
|---------------------|-----------------------|---------------------|--------------|
| LED chips | OSRAM | Power consumption | ~ 30 Watt |
| LED amount | 30 pieces | Daisy Chain cord | 30 cm |
| LED efficacy | 2,9 $\mu\text{mol/J}$ | Bar Connecting Kits | Optional |
| LED beam angle | 120° | Voltage | 100V – 277V |
| LED wavelength | 660nm + 730nm | Work frequency | 50Hz / 60Hz |
| LED lifespan | Up to 50.000 hours | Working environment | -20 ~ + 40°C |
| Height above plants | > 10 cm | Waterproof level | IP65 |
| Size LED Bar | 750*80*53 mm | Weight | 1,0 Kg / pc |

Certification and Warranty of 420 LED Bar



Note:

1. Select different lighting time depending on growing phase and 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. The 420 LED Bar is FCC, CE and RoHS compliant.
5. After sales service; 2 year limited warranty.