



# Grow Lighting

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4Twenty SOLAR Series

## 420 LED Bar Grow

Technical Specification



Release Version: V2.0

Release Date: 2022/11/01

## Advantages 420 LED Bar

### 1. High efficiency and Energy saving

The 420 LED Bar Grow is provided with Samsung LM281B LEDs with an efficacy of 2,5  $\mu\text{mol/J}$ . Compared to standard HPS grow lights the 420 LED Bar Grow does give plants more light intensity and better grow rates, yet using less than 40% of the electricity.

### 2. Long life span

The LEDs used for the 420 LED Bar are Samsung's Horticulture Series LEDs. The Samsung LEDs are especially developed for Horticulture environment, which ensures the LEDs are resilient against severe temperature, and exposure to high air humidity. This guarantees high light-output, high quality and high reliability with a long lifespan.

### 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 45W 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



1xDaisy Chain Cord

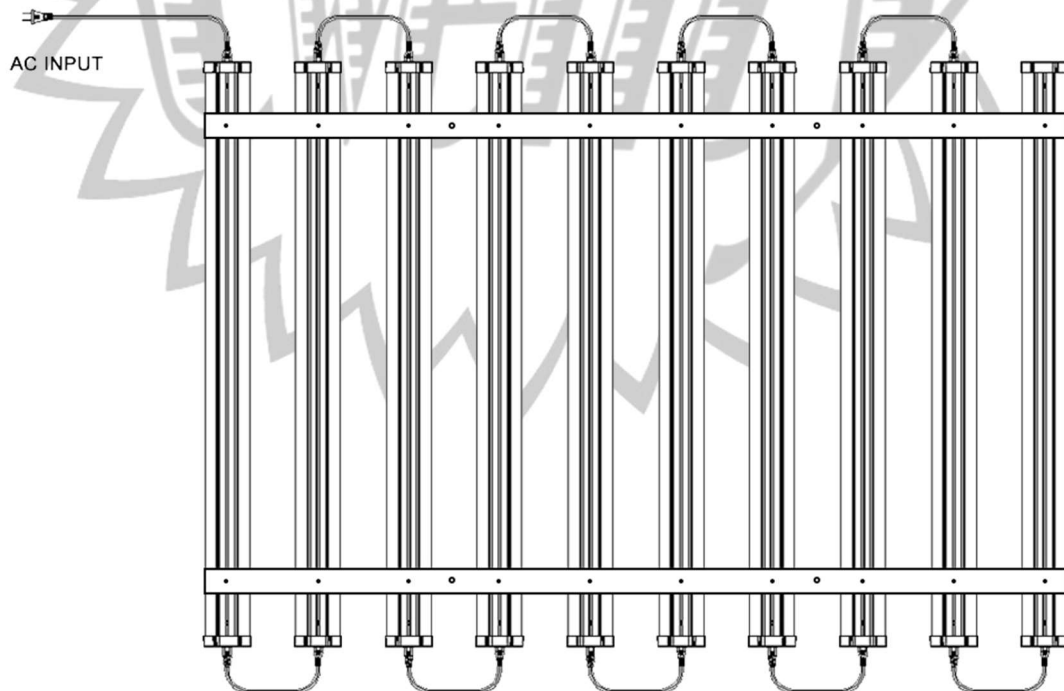


2xSteel Hangers

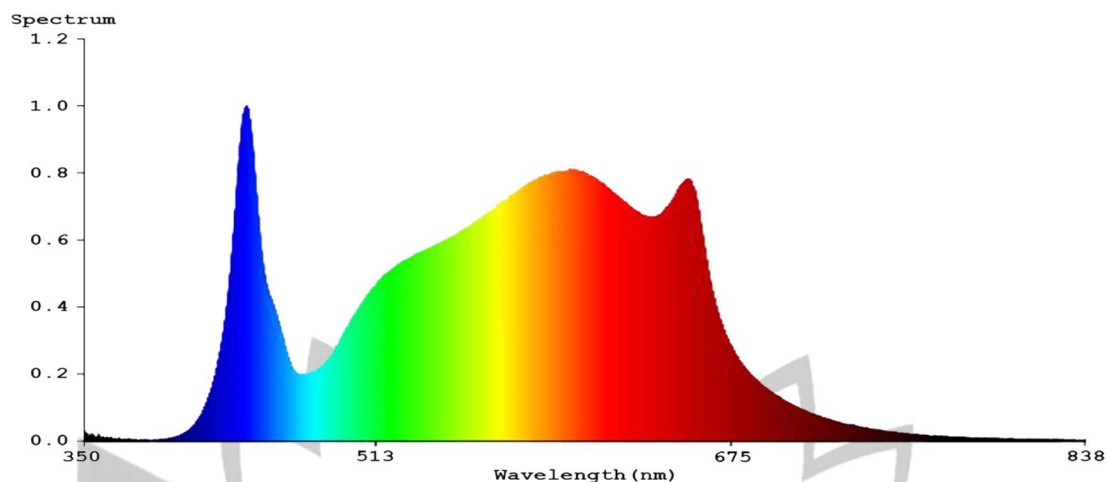


1xPower cable

### Bar Connecting Kit [BCK10]



## Spectrum 420 LED Bar Grow



## Technical specification 420G5S-V45G

Item	Value	Item	Value
LED chips	Samsung LM281B	Power consumption	~ 40 Watt
LED amount	130 pieces	HPS/MH equivalent	100 Watt
LED efficacy	2,5 $\mu\text{mol}/\text{J}$	Daisy Chain cord	30 cm
LED beam angle	120°	Bar Connecting Kits	Optional
LED wavelength	Full Grow spectrum	Voltage	100V - 277V
LED lifespan	Up to 50.000 hours	Work frequency	50Hz / 60Hz
Height above plants	> 10 cm	Working environment	-20 ~ + 40°C
Lighting area	0,25 to 1,25 m <sup>2</sup>	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.