



# Grow Lighting

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4Twenty SOLAR Series

## 4.20 LED Bar Grow

Technical Specification



Release Version: V1.0

Release Date: 2024/05/15

## Advantages 420 LED Bar Grow

### 1. High efficiency and Energy saving

The 420 LED Bar Grow is provided with Samsung LM281B+ LEDs with an efficacy of 2,6  $\mu\text{mol}/\text{J}$ . 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. Long life span

The LEDs used for the 420 LED Bar Grow are Samsung's Horticulture LEDs. The Samsung LEDs have been specially developed for the horticultural environment, which ensures that the LEDs can withstand extreme temperatures and exposure to high humidity. This guarantees high light-output, high quality and high reliability with a long lifespan.

### 3. Waterproof

420 LED Bars have an IP65 waterproof rating. The LEDs are attached to the aluminum frame and covered watertight by an optical PC cover with high light transmittance.

### 4. Plug & Play

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

### 5. Daisy Chain

Up to 10 pieces of 420 LED Bars can be connected in a Daisy Chain series with one power cord. The total Daisy Chain cord length is approximately 40 cm.

### 6. Bar Connecting Kit

An optional Bar Connecting Kit allows 7 [BCK7] or up to 10 [BCK10] 900mm LED Bars to 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 of HPS & MH lights. 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.

LED Bar & daisy chain



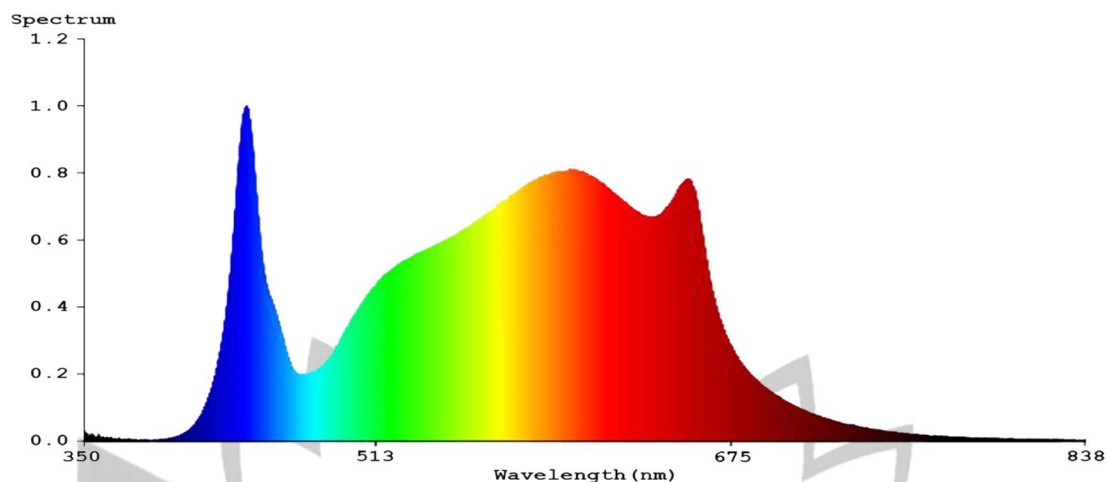
Bar Connecting Kit [BCK7] | optional



Aluminum heat sink



## Spectrum 420 LED Bar Grow



## Technical specification 420LBG45

Item	Value	Item	Value
LED chips	Samsung LM281B+	Power consumption	~ 42,0 Watt
LED amount	148 pieces	HPS equivalent	100 Watt
LED efficacy	2,6 $\mu\text{mol}/\text{J}$	Daisy Chain cord	20 cm
LED beam angle	120°	Bar Connecting Kit	Optional
LED wavelength	Full 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	0,15 to 1,00 m <sup>2</sup>	Waterproof level	IP65
Size LED Bar	900*52*32 mm	Weight	0,6 Kg / pc

## Certification and Warranty of 420 LED Bars



## Note:

1. Select different lighting times depending on growth phase and plant species.
2. Do not look directly at the LED light 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; 3-year limited warranty.