

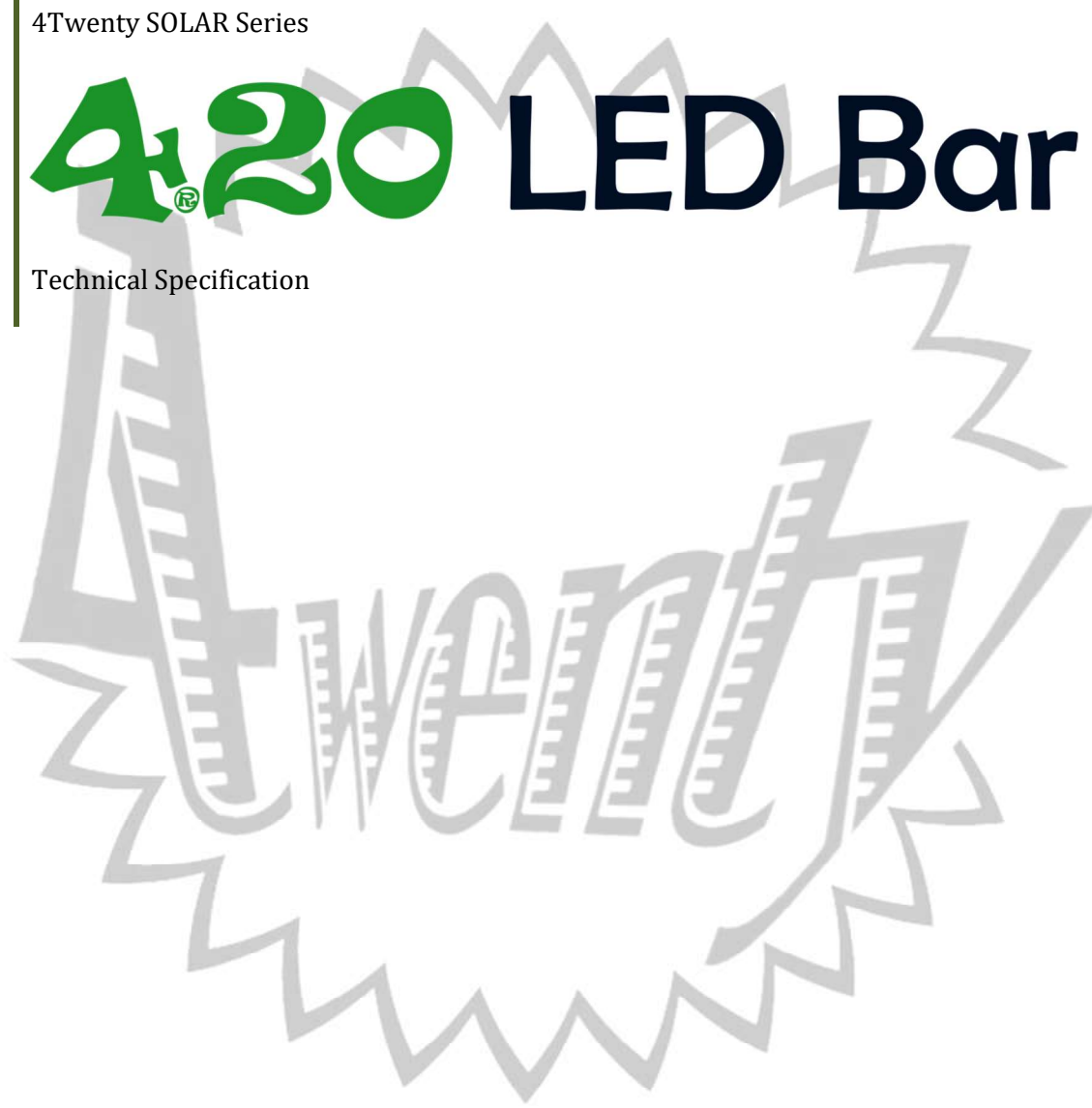


Grow Lighting

4Twenty SOLAR Series

420 LED Bar

Technical Specification



Release Version: V1.0

Release Date: 2024/05/15

Advantages 420 LED Bar

1. High efficiency and Energy saving

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

The LEDs used for the 420 LED Bar 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

The 420 LED Bar has 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 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 equipped with a Daisy Chain to connect multiple LED Bars. The new LED Bar can be combined with other 900mm 420 LED Bars to create a Bar Light System. The total Daisy Chain cord length is approximately 40 cm.

6. Bar Connecting Kit

Up to 10 pieces of 420 LED Bars can be connected in series with one power cord. 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.

420 LED Bar & daisy chain



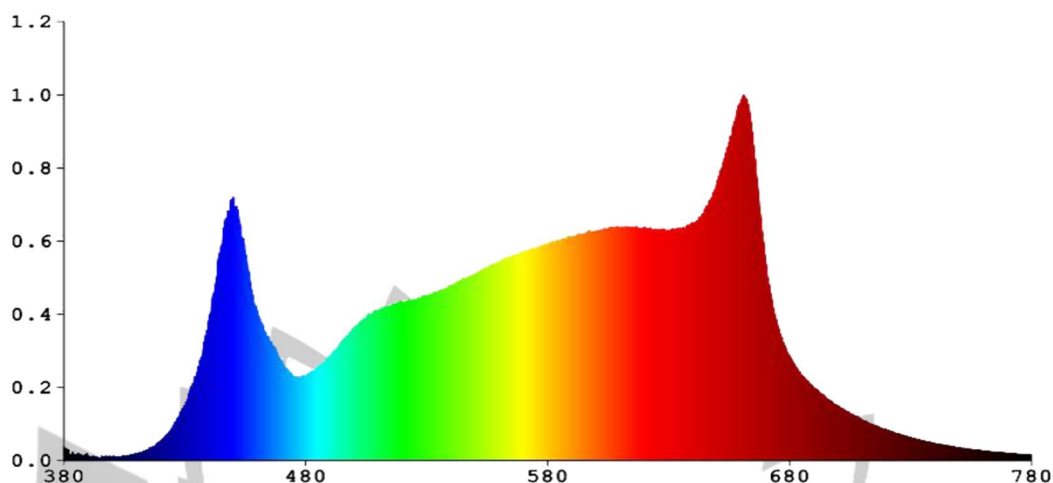
Bar Connecting Kit [BCK7] | optional



Aluminum heat sink



Spectrum 420 LED Bar



Technical specification 420LB45

Item	Value	Item	Value
LED chips	Samsung LM281B+	Power consumption	~ 42,0 Watt
LED amount	148 pieces	HPS equivalent	85 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 ²	Waterproof level	IP65
Size LED Bar	900*52*32 mm	Weight	0,6 Kg / pc

Certification and Warranty of 420 LED Bar



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.