

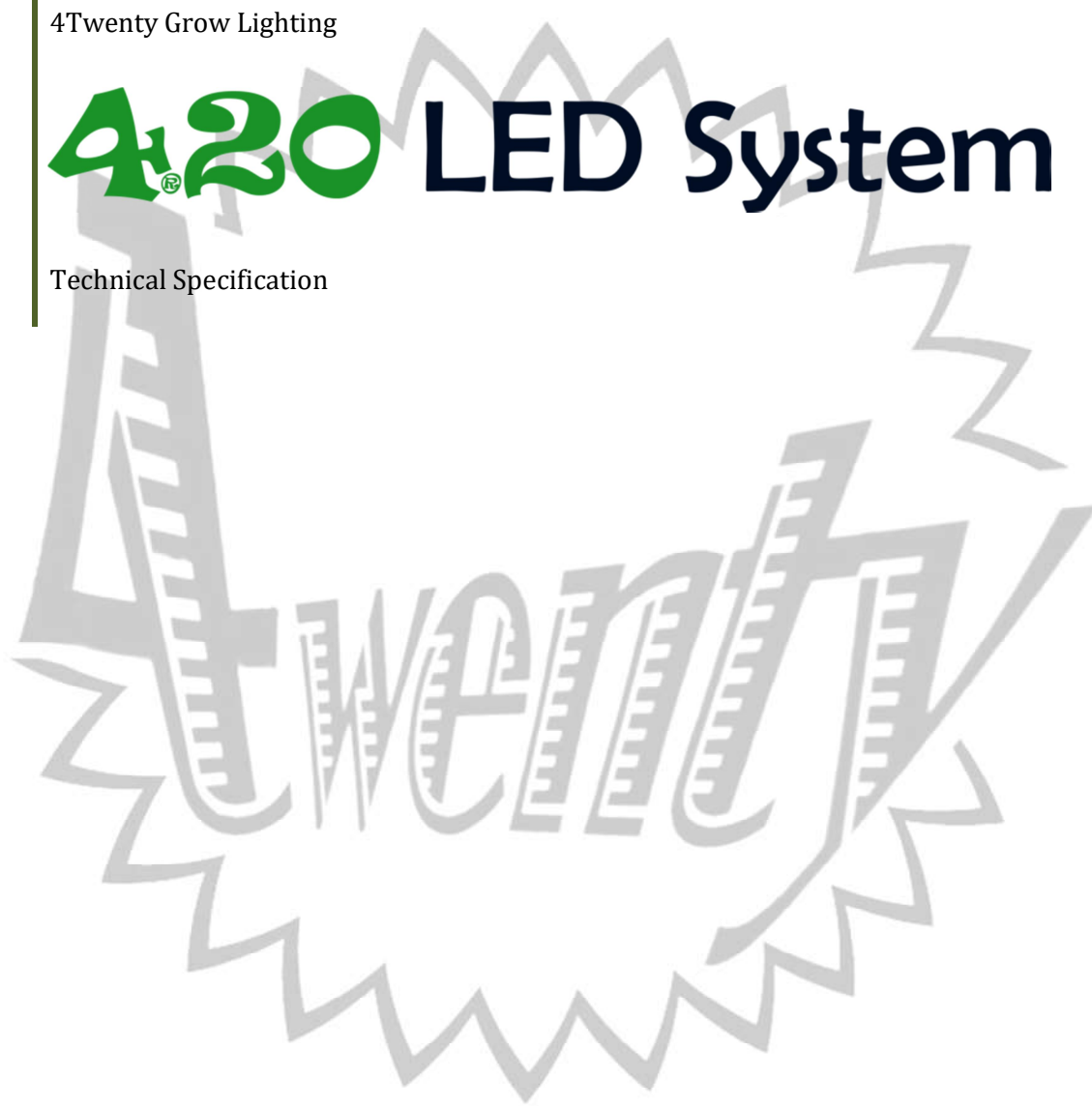


Grow Lighting

4Twenty Grow Lighting

420 LED System

Technical Specification



Release Version: V1.0

Release Date: 2021/03/01

Advantages 420 LED System

1. High efficiency and Energy saving

The 420 LED System is provided with Samsung LM301B LEDs with an efficacy of 2,9 $\mu\text{mol}/\text{J}$. Compared to standard HPS grow lights the 420 LED System 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 System are Samsung's Horticulture Series LEDs. The Samsung LEDs are especially developed for Horticulture environment, which ensures the LEDs are resilient against severe temperature, humidity and exposure to chemicals. This guarantees high light-output, high quality and high reliability with a long lifespan.

3. Dim function

The 420 LED System is provided with a full plant spectrum. With a 10% - 100% dimmer the light intensity can be adjusted to the need of plants during all phases of plant growth.

4. Waterproof

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

5. Plug & Play

No setup required; no reflector and ballast are needed. The 420 LED System 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.

6. Modular Connecting System [MCS]

The 420 LED System does have a modular structure and can be interconnected to form a larger fixture. With optional aluminum connecting arms an endless amount of lights can be linked to adjust the 420 LED System to any grow room.

7. Advanced thermal design

The LEDs are passively cooled for optimal LED performance. If the temperature of the 420 LED System is too high, the light will dim to 50% automatically. After cooling, the light will return to full. Passive LED cooling is preferred above active; because of the absence of moving parts, it's more energy efficient and requires no maintenance!

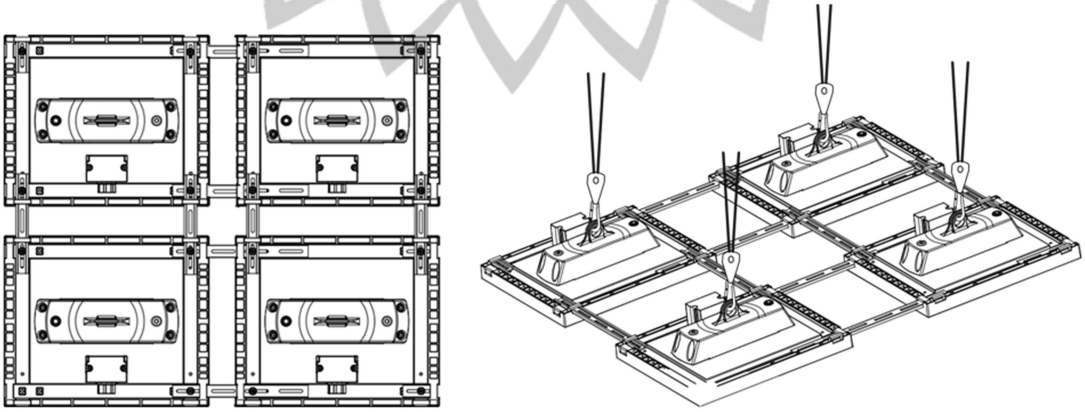
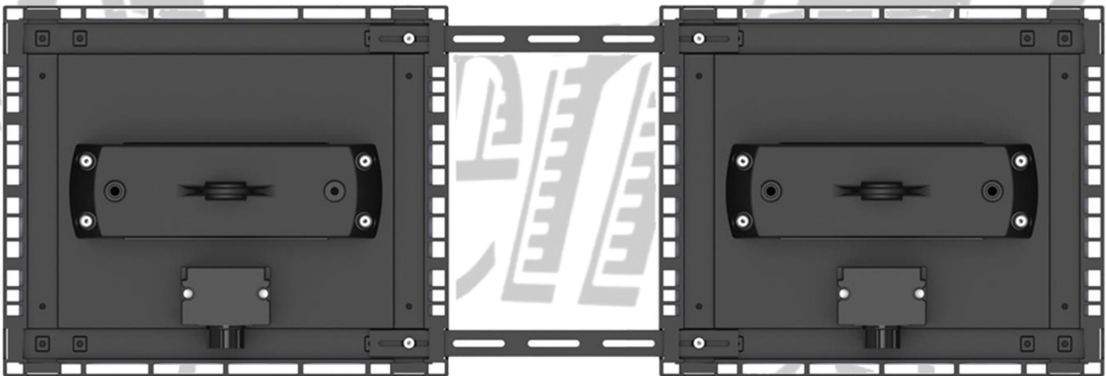
8. Environment friendly

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. 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 products and also do contain no mercury and few if any toxins such as iodine and lead.

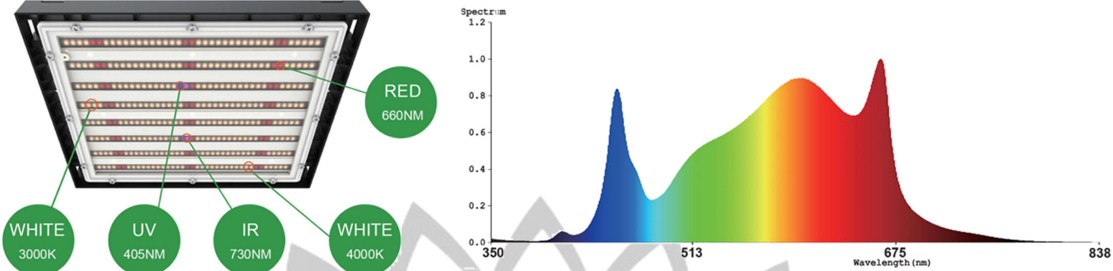
Pictures 420 LED System



Modular Connecting System [MCS]



Spectrum 420 LED System



Technical specification 420LS150

Item	Value	Item	Value
LED chips	Samsung LM301B	Power consumption	~ 150 Watt
LED amount	312 pieces	Dimmer	10% - 100%
PPF LEDs	2,9 μmol/J	Quality certified	Intertek, DLC 5.2
LED beam angle	120°	Waterproof level	IP65
LED wavelength	~ 330 - 830nm	Voltage	100V - 277V
Height above plants	25 - 50 cm	Work frequency	50Hz / 60Hz
Lifespan	Up to 50.000 hours	Working environment	-20 ~ + 40°C
Lighting area	Infinite [by MCS]	MCS Connecting Arms	Optional
Size LED System	300*250*70mm	N.W.	2,7 Kg / pc
Packing size	365*300*125mm	G.W.	3,5 Kg / pc

Certification and Warranty of 420 LED System



- 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 System is ELT, FCC, DLC 5.2, CE and RoHs compliant.
 5. After sales service; 5 year limited factory warranty, from production date!