



Grow Lighting

4Twenty Grow Lighting

420 X5 Spider

Technical Specification



Release Version: V1.0

Release Date: 2023/08/01

420 X5 Spider | 240W

1. High efficiency and Energy saving

The 420 X5 Spider is provided with Samsung & OSRAM LEDs with an efficacy of 2,5 $\mu\text{mol/J}$. Compared to standard HPS grow lights the 420 X5 Spider 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 Spider are 3000K + 6500K Samsung LEDs & 440nm, 460nm + 660nm OSRAM LEDs. The LEDs are especially developed for Horticulture environment, so 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. Waterproof

The 420 Spider does have a IP65 waterproof rate. The LEDs are attached to the aluminum frame and waterproof sealed by a high transmittance optical coating.

4. Easy Setup

The 420 X5 Spider requires an easy setup. Unfold the LED fixture and connect the DIM Driver section. The DIM Driver can be mounted on top of the LED fixture. After connecting the DIM Driver to the LED fixture, the 420 Spider can be plugged directly into an AC100 to AC277 Volts power socket.

5. Dim function

The 420 Spider 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

6. Daisy Chain dimming

The 420 Spider is provided with a dim knob for manual 0-100% dimming. With the included RJ12 cable the X5 Spider fixtures can be looped in a Daisy Chain, so that any of dim knobs does operate up to 2000 pieces 420 Spiders.

A RJ12 Controller can be used to set lighting schedules for the daisy chain looped fixtures.

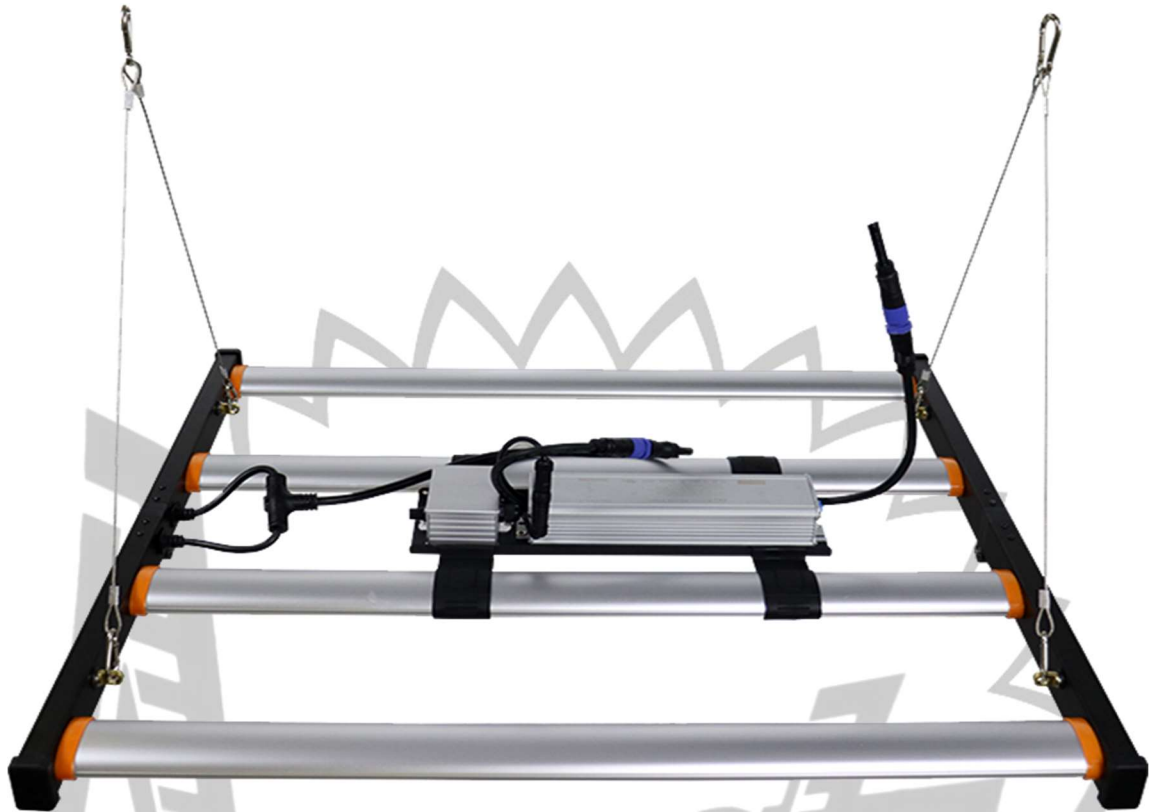
7. Advanced thermal design

The LEDs are passively cooled by the aluminum LED Bars. The aluminum PCB is directly attached to the aluminum body of the Bars for optimal 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.

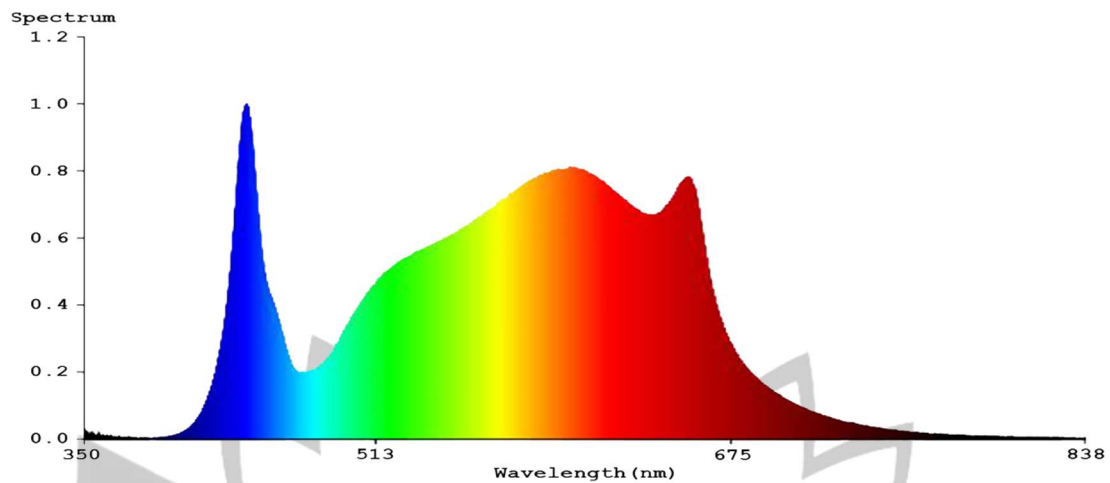
420 X5 Spider | 240W



420 X5 Spider | Dimming & timing



420 X5 Spider | 240W Spectrum



Technical specification 420X5-240

Item	Value	Item	Value
LED chips	Samsung & OSRAM	Power consumption	~ 240 Watt
LED amount	1224 pieces	Dimmer	10-100%
LED efficacy	2,5 $\mu\text{mol}/\text{J}$	Daisy Chain	PWM, 0-10V
LED beam angle	120°	Connector ports	RJ12
LED wavelength	WW, CW, B, R	Voltage	100V – 277V
Height above plants	≥ 15 cm	Work frequency	50Hz / 60Hz
Lifespan	50.000 hours	Working environment	-20 ~ + 40°C
Lighting area	$\geq 90*90\text{cm}$	Waterproof level	IP65
Size X5 Spider	700*580*40mm	Net Weight	4 Kg

Certification and Warranty of 420 X5 Spider



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 X5 Spider is ELT, FCC, CE and RoHs compliant.
5. After sales service; 3-year limited factory warranty.