

PRO GROW 630 W & 680 W
SAMSUNG LM301H White
OSRAM 660 nm Hyper Red
Top Bin Diodes

**SAMSUNG
OSRAM**

PRO GROW

INDUSTRY LEADING PERFORMANCE

Pro Grow LED grow lighting systems deliver powerful, full spectrum, high performance with long lifespan and energy savings for commercial & hobby growers.

LED PRODUCT CATALOGUE



INTRODUCING

Pro Grow range of LED's utilise industry leading diodes, coupled with reliable electronics to deliver horticultural LED lighting solutions that outperform the competition in quality light output, end product yield and purchase price.



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60 W Single Bar

60 W Single Bar

LED Model X 60 W Single Bar

140 $\mu\text{mol/s}$ PPFD

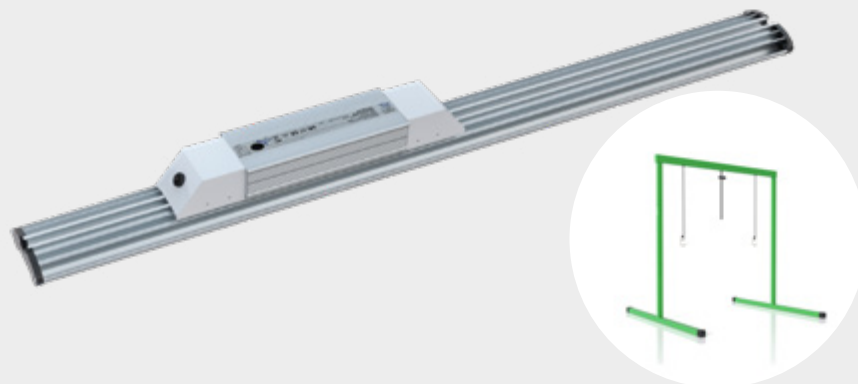
2.4 $\mu\text{mol/J}$

Philips 6,500K Blue

Sosen Driver

Weight 1.3 kg

Dimensions 58 x 6 x 6 cm

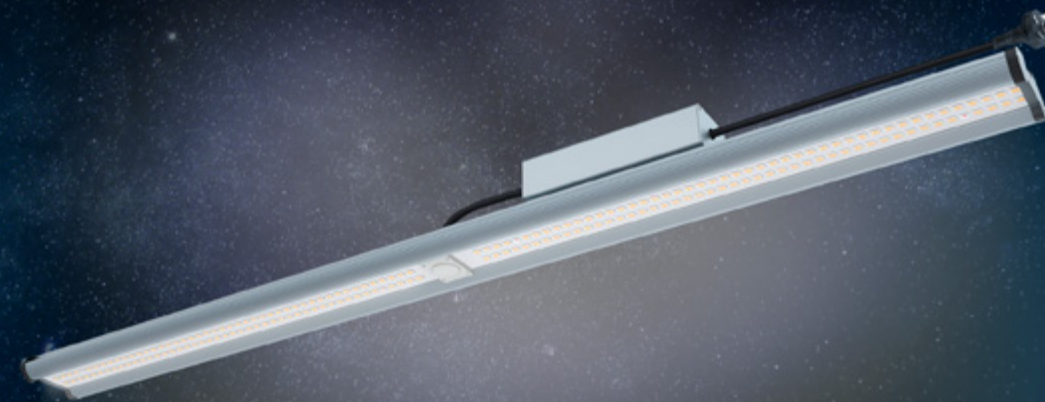


Optional Stand
66 L x 46 W x 67 cm H

AMPERAGE @240 V

60 W	0.25 A
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Vegetative Horticultural Light



LED - MODEL X

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100 W & 200 W UFO

100 W UFO

Input power: 100 W

Weight: 3 kg

Dimensions: 28 Ø x 11.5 cm High

200 W UFO

Input power: 200 W

Weight: 4 kg

Dimensions: 40 Ø x 12.5 cm High



AMPERAGE @240 V

100 W	0.42 A
200 W	0.83 A



Save

Energy-efficient LED technology lowers energy usage.



Easy

- Plug & Play.
- Set & Forget.



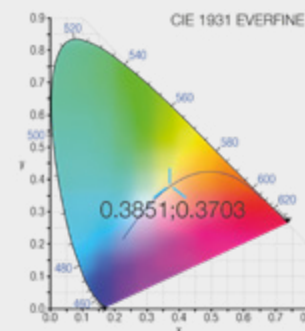
Quiet

No cooling fan required



Versatile

Full spectrum grow & bloom horticultural lighting from one fixture.



Full Spectrum Horticultural Light



100 W



200 W

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300 W & 500 W UFO

300 W UFO

Input power: 300 W

Weight: 6 kg

Dimensions: 40 Ø x 16.5 cm High

500 W UFO

Input power: 500 W

Weight: 7 kg

Dimensions: 45 Ø x 23 cm High

AMPERAGE @240 V

300 W	1.25 A
500 W	2.08 A



Solid Suspension System



Save

Energy-efficient LED technology lowers energy usage.



Easy

- Plug & Play.
- Set & Forget.



Quiet

No cooling fan required



Versatile

Full spectrum grow & bloom horticultural lighting from one fixture.

Full Spectrum Horticultural Light



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630 W 6 Bar

LED Model S 630 W 6 Bar

1,720 $\mu\text{mol/s}$ PPFD

2.73 $\mu\text{mol/J}$

Full Spectrum

Samsung LM301H White

Osram 660 nm Hyper Red

Inventronics Driver

Weight 16.5 kg

Dimensions: 116 x 106 x 11.5 cm

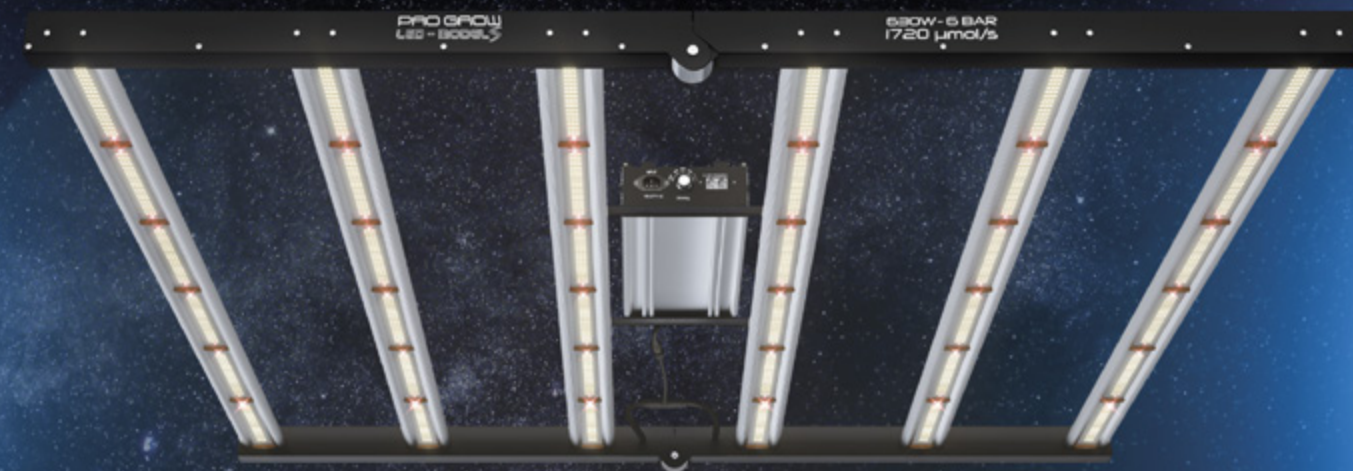
(with ballast attached)



AMPERAGE @240 V

630 W	2.62 A
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Full Spectrum Horticultural Light



LED - MODEL S

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680 W 8 Bar

LED Model E 680 W 8 Bar

1,950 $\mu\text{mol/s}$ PPFD

2.85 $\mu\text{mol/J}$

Full Spectrum

Samsung LM301H White

Osram 660 nm Hyper Red

Inventronics Driver

Weight: 19.2 kg

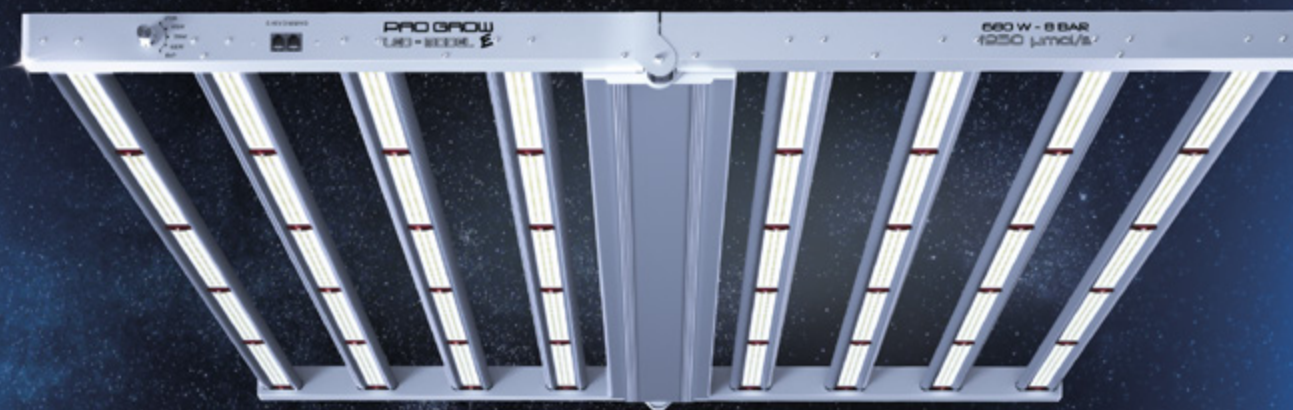
Dimensions: 116 x 112 x 5 cm



AMPERAGE @240 V

680 W	2.83 A
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Full Spectrum Horticultural Light



LED - MODEL E

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820 W Solar

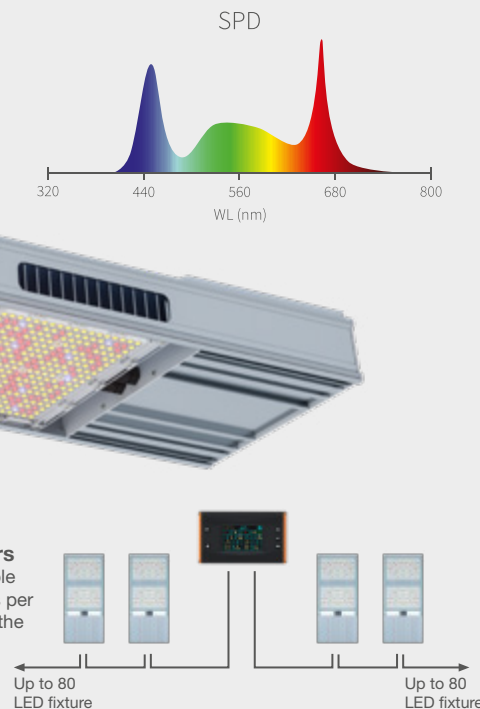
LED Solar 820 W

2,000 $\mu\text{mol/s}$ PPFD
2.5 $\mu\text{mol/J}$
Seoul 5050 White
Led-star Blue
Osram 660 nm Hyper Red
Inventronics Drivers
Weight 12.5 kg
Dimensions 74 x 30 x 9 cm

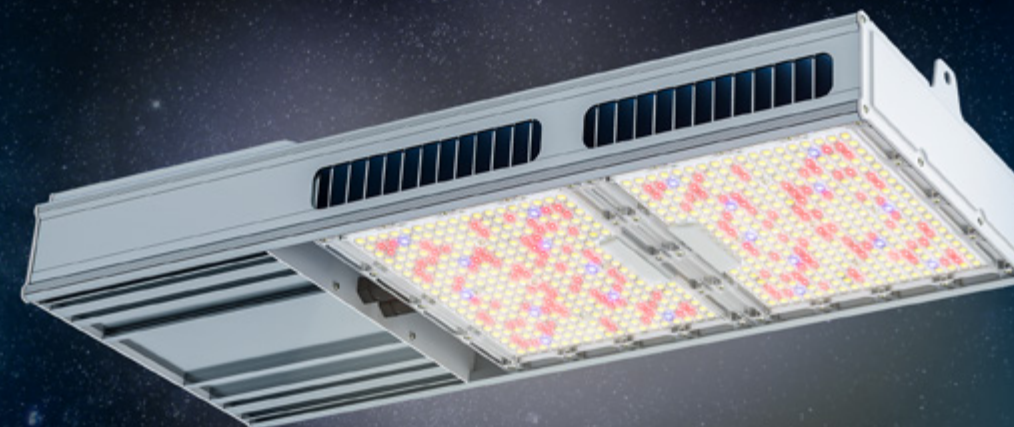
AMPERAGE @240 V	
820 W	3.42 A

AMPERAGE @415 V	
820 W	1.98 A

Compatible with 0-10V Controllers
It is equipped with an external RJ14 cable and allows for installation of 160 fixtures per controller port by simply daisy chaining the fixtures.



Full Spectrum Horticultural Light



LED - SOLAR

LED Smart Controller



Control up to:
100 x Model S
100 x Model E
160 x Solar 820 W
via RJ-14 connection.



On/ Off Timing



Sunrise & Sunset



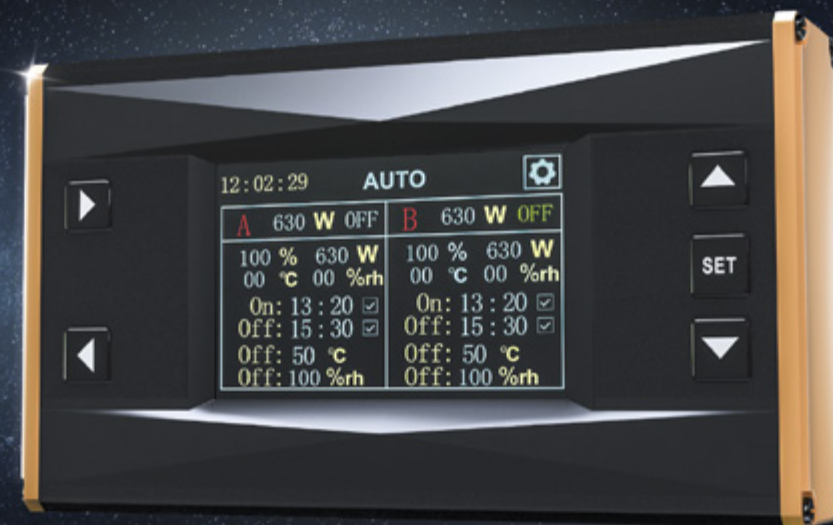
Temperature
& Humidity



Touch Screen



The new GEN 2 Controller



LED Growing Tips

Pro Grow LED's offer full spectrum, high colour rendering index, horticultural lighting.

- High light requirement plants need a minimum of 500 W/sq.m of either LED or HID lighting.
- Pro Grow 100 & 200 W are suitable for supplementary or under canopy lighting.
- Pro Grow 300, 500, 630 & 680 W are stand alone, grow & bloom fixtures.
- LED energy savings are achieved by reducing the heat load of indoor growing areas, requiring less air movement or HVAC.
- LED grown plants may require additional heating in cold climates. The plant root zone can be heated in low ambient temperatures.

- Less heat equals less watering required. Be careful to not overwater plants grown under LED.
- Follow the PPFD User Guide for correct LED placement at various stages of growth.
- LED grow lights provide the light energy for photosynthesis. Other environmental factors such as room temperature, airflow, circulation, medium, nutrients and plant genetics are just as important as the light source. Don't focus on a single part of the growing process, understanding how everything is interconnected will ensure your success.



Pro Grow LED - PPFD Guide (µmol/m²/s)						
MODEL	100 W UFO	200 W UFO	300 W UFO	500 W UFO	630 W 6 Bar	680 W 8 Bar
Total PPF	210 µmol/s	420 µmol/s	620 µmol/s	1050 µmol/s	1720 µmol/s	1950 µmol/s
PPF Efficacy	2.1 µmol/J	2.1 µmol/J	2.1 µmol/J	2.1 µmol/J	2.73 µmol/J	2.85 µmol/J
Kelvin	4K	4K	4K	4K	4K	4K
CRI	90	90	90	90	91.8	91.8
Coverage	0.5 m²	0.75 m²	1m²	1.2 m²	1.2-1.5 m²	1.5-1.8 m²
Output PPFD (µmol/m²/s)	342 @ 30 cm	730 @ 30 cm	1250 @ 30 cm	1297 @ 40 cm	985 @ 30 cm	1150 @ 40 cm

STAGE	Required µmols	Recommended Height Of LED Fixture Above The Canopy @ 100% Intensity					
Clones	75 - 125	95 cm	110 cm	120 cm	150 cm	150 cm	160 cm
Mother Plants	400 - 600	20-15 cm	30-45 cm	80-65 cm	110-90 cm	110-60 cm	115-85 cm

GROWTH CYCLE		75-55 cm	100-90 cm	110-100 cm	130-90 cm	130-120 cm	150-130 cm
Early Vegetative	125 - 200						
Late Vegetative	200 - 300	55-35 cm	90-75 cm	100-85 cm	120-110 cm	120-110 cm	130-115 cm

FLOWERING CYCLE		45-30 cm	80-70 cm	90-80 cm	110-105 cm	110-105 cm	125-115 cm
Week 1	300 - 400						
Week 2	400 - 500	35-20 cm	75-55 cm	80-70 cm	110-100 cm	105-80 cm	115-95 cm
Week 3	500 - 600	20-15 cm	55-45 cm	70-65 cm	100-90 cm	80-65 cm	95-85 cm
Week 4	600 - 700	10 cm	45-35 cm	65-55 cm	90-70 cm	65-55 cm	85-70 cm
Week 5	700 - 750	-	35-30 cm	55 cm	70-65 cm	55 cm	70 cm
Week 6	750 - 850	-	30-25 cm	55-50 cm	65-60 cm	50-45 cm	65-60 cm
Week 7-9	900+	-	20 cm	45 cm	55 cm	40 cm	55 cm



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