

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 full 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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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.



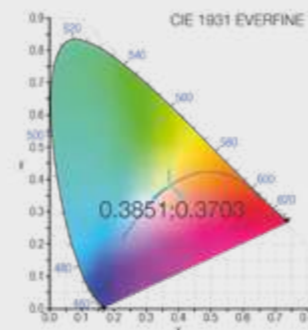
Quiet

No cooling fan required



Versatile

Full spectrum grow & bloom horticultural lighting from one fixture.



Full Spectrum UFO LED Horticultural Light



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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



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Versatile

Full spectrum grow & bloom horticultural lighting from one fixture.

Full Spectrum UFO LED 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

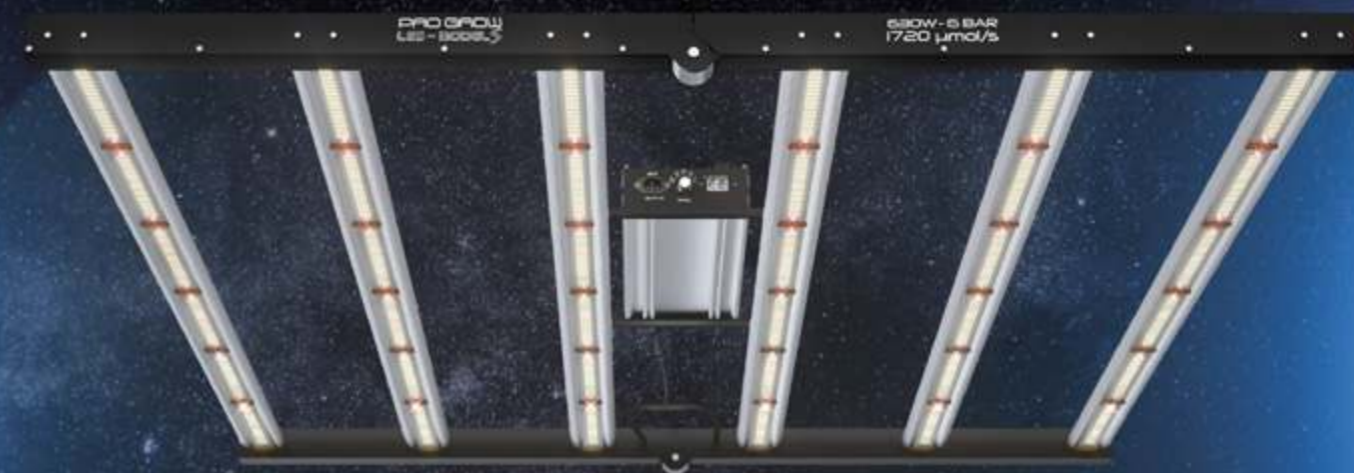
(with ballast attached)



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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Pro Grow GEN 2 Controller



Control up to:
100 x Model S
100 x Model E
via RJ-14 connection.



On/ Off Timing



Sunrise & Sunset



Temperature & Humidity



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
Mother Plants		400 - 600		20-15 cm	30-45 cm	80-65 cm	110-90 cm

GROWTH CYCLE		75-55 cm	100-90 cm	110-100 cm	130-90 cm	130-120 cm	150-130 cm
Clones	75 - 125						
Mother Plants	400 - 600	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	75 - 125						
Week 2	400 - 600	35-20 cm	75-55 cm	80-70 cm	110-100 cm	105-80 cm	115-95 cm
Week 3	75 - 125	20-15 cm	55-45 cm	70-65 cm	100-90 cm	80-65 cm	95-85 cm
Week 4	400 - 600	10 cm	45-35 cm	65-55 cm	90-70 cm	65-55 cm	85-70 cm
Week 5	400 - 600	-	35-30 cm	55 cm	70-65 cm	55 cm	70 cm
Week 6	75 - 125	-	30-25 cm	55-50 cm	65-60 cm	50-45 cm	65-60 cm
Week 7-9	400 - 600	-	20 cm	45 cm	55 cm	40 cm	55 cm





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