

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 LEDs 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.

The importance of PPFD:

Photosynthetic Photon Flux Density (PPFD) is the measurement of light arriving at your plant canopy. PRO GROW LEDs produce more PPFD than HID lights and most competing LED brands. This higher PPFD rate can be overwhelming to small (and even large) plants. Growers are fast learning that PPFD levels are the most crucial factor when growing indoors under LEDs. PPFD at the canopy can be controlled via the dimming dial or by simply raising or lowering your LED.

PPFD User Guide:

The PPFD User Guide tells you at what height to run each PRO GROW LED fixture on any given week of your grow / bloom cycle. When learning to use your new LED it is important to follow these recommendations. The correct fixture height above the plant canopy will ensure your plants aren't getting too much light, too soon. Always start with reduced light, slowly increasing to full light output at the middle of the flowering period.



02 Introducing









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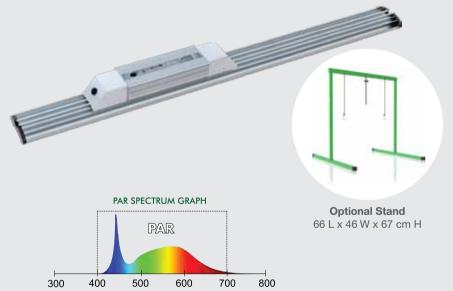


60 W Single Bar

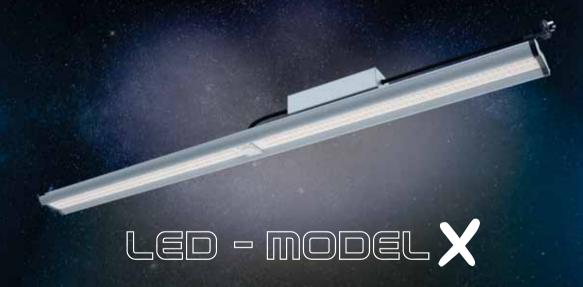
LED Model X

140 µmol/s PPFD
2.4 µmol/J
Optimum 6,500 K Blue
Optimum Driver
Weight 1.3 kg
Dimensions 58 x 6 x 6 cm

AMPERAGE @240 V						
60 W	0.25 A					



Vegetative Horticultural Light















100 W & 200 W UFO

100 W UFO

210 μ mol/s PPFD 2.1 μ mol/J

Input power: 100 W

Weight: 3 kg

Dimensions: 28 Ø x 11.5 cm High

200 W UFO

420 μmol/s PPFD 2.1 μmol/J Input power: 200 W

Weight: 4 kg

Dimensions: 40 Ø x 12.5 cm High

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AMPERAGE @240 V						
100 W 0.42 A						
200 W	0.83 A					



Save

Energy-efficient LED technology lowers energy usage.



Quiet

No cooling fan required



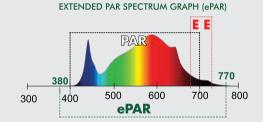
Easy

- Plug & Play.
- Set & Forget.



Versatile

Full spectrum grow & bloom horticultural lighting from one fixture.



Full Spectrum Horticultural Light

















300 & 500 W UFO (0-10 V)

300 W UFO

620 μ mol/s PPFD 2.1 μ mol/J

Input power: 300 \mbox{W}

Weight: 6 kg

Dimensions: 40 Ø x 16.5 cm High

500 W UFO

1050 μmol/s PPFD 2.1 μmol/J 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				



Save

Energy-efficient LED technology lowers energy usage.



Quiet

No cooling fan required



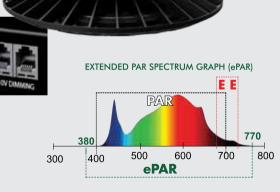
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Versatile

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Full Spectrum Horticultural Light

















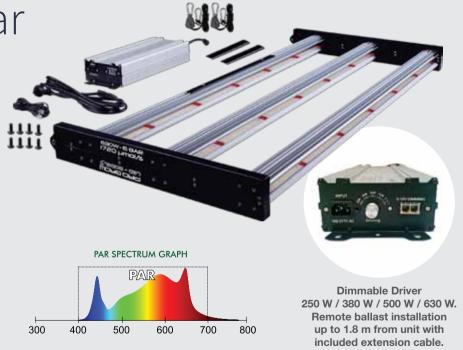


630 W 6 Bar

LED Model S 630 W 6 Bar

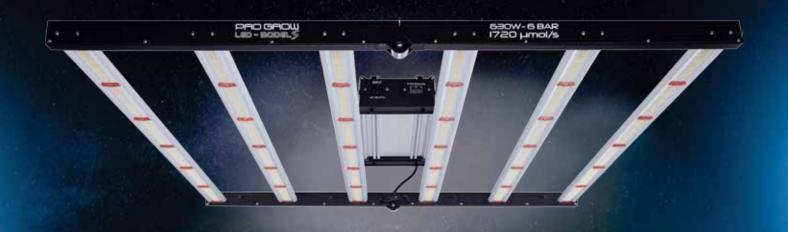
1,720 µmol/s PPFD
2.73 µmol/J
Full Spectrum
Samsung LM301H White
Osram 660 nm Hyper Red
Inventronics Driver
Weight 16.5 kg
Dimensions: 116 x 106 x 11.5 cm
(with ballast attached)

AMPERAGE @240 V						
630 W	2.62 A					



10 630 W 6 Bar

Full Spectrum Horticultural Light

















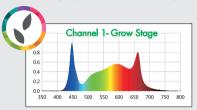
780 W 8 Bar

LED Model Z 780 W 8 Bar

1,870 µmol/s PPF
1,950 µmol/s BPF (ePar)
2.6 µmol/J
Full Spectrum
Samsung LM301H White
Osram Hyper Red and Far Red
Optimum UVA & UVB
Optimum Driver
Weight 13.7 kg
Dimensions 110 x 106 x 5 cm

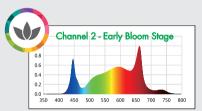
AMPERAGE @240 V						
780 W	3.25 A					

3 CHANNEL ADJUSTABLE SPECTRUM



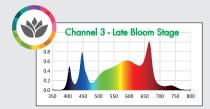
Increased Blue

Deep blue (5K) targets peak chlorophyll & photosynthesis production for boosted vegetative growth & plant vigour.



Increased Red & Far-red

Higher Red and Far-red output (4K) for increased production in flowering plants. The right amount of Far-red light engages Emerson Effect, encourages early node staging and more flower sites.

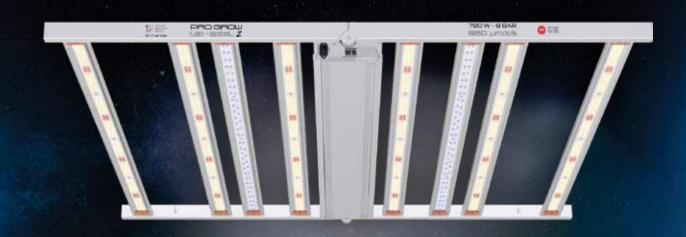


Increased Red, Far-red + UVA/UVB

UV & Red & Far-red offers maximum BPF (ePar). This encourages lateral branching, less stretching, enhanced flower size and improves essential oils, taste and aroma.

12 780 W 8 Bar

Full Spectrum Horticultural Light





















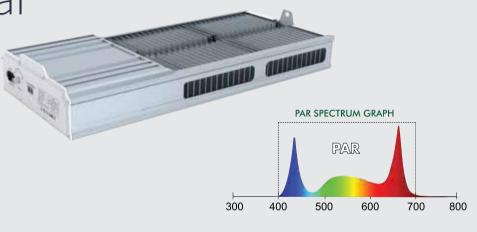


820 W Solar

LED Solar 820 W

2,000 μmol/s PPFD 2.5 μmol/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								
AMPERA	GE @415 V							



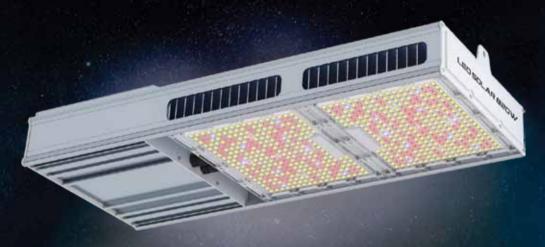
Compatible with 0-10 V Controllers.

The 820 W Solar is fitted with RJ-14 connection ports allowing the use of up to 160 fixtures per controller by daisy chaining the fixtures.



High Bay Greenhouse Fixture

Retrofit 1:1 1000 W HPS Replacement



LED - SOLAR













Eco Smart Controller



Controls up to: 30 x UFO LED (0-10 V) 30 x Model S 30 x Solar 820 Via RJ14 connection





On/ Off Timing



Sunrise & Sunset



Temperature & Humidity



Touch Screen



The new Eco Smart Controller

The Affordable, Multi Fixture Controller For 0-10 V LEDs















LED Smart Controller



Controls up to: 160 x UFO LED (0-10 V) 160 x Model S 160 x Solar 820 Via RJ14 connection (80 per room)



On/ Off Timing



Sunrise & Sunset



Temperature & Humidity



Touch Screen







Simultaneous Dual Room Control

Control Two Rooms Simultaneously















Model Z Smart Controller



Controls up to: 80 x Model Z Via RS-485 connection





On/ Off Timing



Sunrise & Sunset



Temperature & Humidity



Touch Screen



(sold separately)

RS-485 Controller for Model Z 780 W LED

















LED Growing Tips

PRO GROW LEDs offer full spectrum, high colour rendering index, horticultural lighting.

- High light requirement plants need approximately 500 W / m² of LED light.
- 60 W Bars are suitable for seedlings and cuttings.
- 100 & 200 W UFOs are suitable for supplementary or under canopy lighting.
- 300 & 500 W UFOs and 630 & 780 W Bars are all stand alone grow and bloom fixtures, dependent on the footprint of the grow area.
- 820 W Solar are suitable for supplementary greenhouse lighting.
- LED energy savings are achieved by reducing the heat load of indoor growing areas, requiring less air movement or HVAC.

- LED powered greenhouses may require additional heating in cold climates. The plant root zone may be warmed to 25°C in cool climates for increased growth rates.
- Plants grown under LEDs in lower ambient temperatures may require less watering than with HID lighting. The use of well drained plant growth media or soils is advised.
- The increased light intensity of LED light should be matched with increased nutrient strength. Nutrient strength may be increased by up to 30% more than the nutrient manufacturers recommended feed chart.

• LED lights provide the light energy for photosynthesis. Other environmental factors such as room temperature, airflow, circulation, media, nutrients, and plant genetics are just as important as the light source. Do not just focus on a single part of the growing process. Understanding all growth factors and their interconnection will further ensure your success. Grow like a pro with PRO GROW.





	PRO GROW LED - PPFD Guide (μmol/m²/s)								
	LED FIXTURE	60 W 1 Bar	100 W UFO	200 W UFO	300 W UFO	500 W UFO	630 W 6 Bar	780 W 8 Bar	820 W Solar
	Total PPF	140 μmol/s	210 μmol/s	420 μmol/s	620 μmol/s	1050 μmol/s	1720 μmol/s	1950 μmol/s	2000 μmol/s
	PPF Efficacy	2.4 μmol/J	2.1 μmol/J	2.1 μmol/J	2.1 μmol/J	2.1 μmol/J	2.73 μmol/J	2.6 μmol/J	2.5 μmol/J
	Kelvin	6.5K	4K	4K	4K	4K	4K	3.8 / 4.2K	5K
ı	CRI	90	90	90	90	90	91.8	92.6	81.5
	Coverage	0.5 m ²	0.5 m ²	0.75 m ²	1m²	1.2 m ²	1.5 m ²	2.25 m ²	1.5 m ²
	Output PPFD (μmol/m²/s)	250 @ 30 cm	342 @ 30 cm	730 @ 30 cm	1250 @ 30 cm	1297 @ 40 cm	985 @ 30 cm	1227 @30 cm	1436 @ 90 cm

Output PPF	D (μmol/m²/s)	250 @ 30 cm	342 @ 30 cm	730 @ 30 cm	1250 @ 30 cm	1297 @ 40 cm	985 @ 30 cm	1227 @30 cm	1436 @ 90 cm
				/\ /\			7		/\ /\
STAGE	Required µmols	Recomme	ended Height (Of LED Fixture	Above The Ca	nopy @ 100%	Intensity		
Clones	75 - 125	40 - 60 cm	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	200-180 cm
GROWTH CYC	LE								
Early Vegetative	125 - 200	45-30 cm	75-55 cm	100-90 cm	110-100 cm	130-90 cm	130-120 cm	130 - 120 cm	270 cm
Late Vegetative	200 - 300	30-20 cm	55-35 cm	90-75 cm	100-85 cm	120-110 cm	120-110 cm	120 - 110 cm	240 cm
FLOWERING O	FLOWERING CYCLE								
Week 1	300 - 400	-	45-30 cm	80-70 cm	90-80 cm	110-105 cm	110-105 cm	120 - 110 cm	220 cm
Week 2	400 - 500	-	35-20 cm	75-55 cm	80-70 cm	110-100 cm	105-80 cm	110-90cm	200 cm
Week 3	500 - 600	-	20-15 cm	55-45 cm	70-65 cm	100-90 cm	80-65 cm	90 - 80 cm	180 cm
Week 4	600 - 700	-	10 cm	45-35 cm	65-55 cm	90-70 cm	65-55 cm	75 - 60 cm	160 cm
Week 5	700 - 750	-	-	35-30 cm	55 cm	70-65 cm	55 cm	65 cm	140 cm
Week 6	750 - 850	-	-	30-25 cm	55-50 cm	65-60 cm	50-45 cm	60 - 55cm	120 cm
Week 7-9	900+	-	-	20 cm	45 cm	55 cm	40 cm	50cm	110 cm











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