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

SAMSUNG OSRAM



OPTIMUM





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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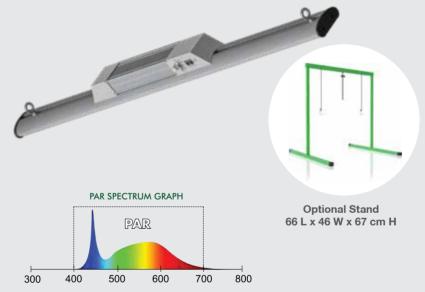


60 W Single Bar

LED Model X 60 W (0-10 V)

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				



04 60 W Single Bar

Vegetative Horticultural Light

















100 W & 200 W UFO

100 W UFO

210 μmol/s PPFD 2.1 μmol/J Input power: 100 W

Weight: 2.1 kg

Dimensions: 28 Ø x 11.5 cm High

200 W UFO (0-10 V)

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

Weight: 3.5 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



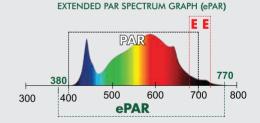
Easv

- Plug & Play.
- Set & Forget.



Versatile

Full spectrum grow & bloom horticultural lighting from one fixture.



06

Full Spectrum Horticultural Light





















300 & 500 W UFO

300 W UFO (0-10 V)

620 µmol/s PPFD 2.1 µmol/J Input power: 300 W

Weight: 6 kg Dimensions: 40 Ø x 16.5 cm High

500 W UFO (0-10 V)

1050 μmol/s PPFD 2.1 μmol/J Input power: 500 W

Weight: 8.6 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



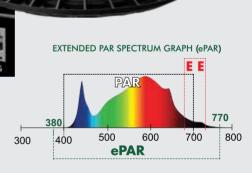
Easy

- Plug & Play.
- Set & Forget.



Versatile

Full spectrum grow & bloom horticultural lighting from one fixture.



Full Spectrum Horticultural Light





















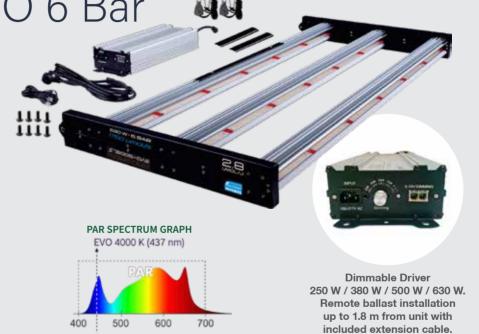




LED Model S 630 W EVO 6 Bar

1,760 µmols/s PPFD
2.8 µmols/J
Full Spectrum
Samsung LM301H EVO 4000 K
Samsung LM301H 4000 K
Osram 600 nm Hyper-red
Sosen 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 EVO 6 Bar

Full Spectrum Horticultural Light















780 W EVO 8 Bar

LED Model Z 780 W EVO 8 Bar

1,920 µmol/s PPF

2,000 µmol/s BPF (ePar)

2.8 µmol/J

Full Spectrum

Samsung LM301H EVO 4000 K

Samsung LM301H 4000 K

Osram 660nm Hyper-Red

Optimum Blue 450 nm

Optimum Far red

Optimum Driver

Weight 13.7 kg

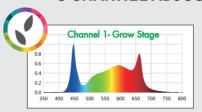
Dimensions 110 x 106 x 5 cm

AMPERAGE @240 V

780 W

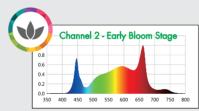
3.25 A

3 CHANNEL ADJUSTABLE SPECTRUM



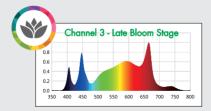
Increased Blue

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.

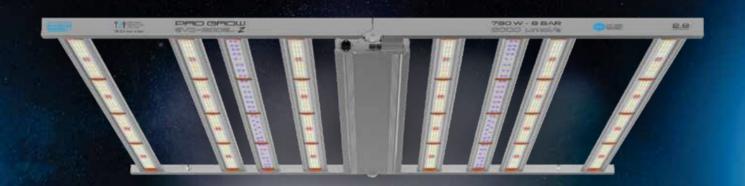


Increased Red, Far-red + UVA/UVB

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

780 W EVO 8 Bar

Full Spectrum Horticultural Light























800 W EVO 8 Bar

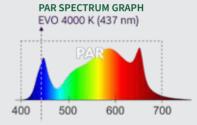
LED Model E 800 W EVO 8 Bar

430 V 3 phase 2,400 µmol/s PPF 3.0 µmol/J Full Spectrum Samsung LM301H EVO 4000 K Samsung LM301H 4000 K Osram Hyper Red Inventronics Driver Weight 22 kg Dimensions 110.5 x 106 x 7 cm

AMPERAGE @415 V							
800 W	1.68 A						

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Compatible with 0-10 V Controllers. The E800 EVO 8 Bar is fitted with RJ -14 connection ports allowing the use of up to 160 fixtures per controller by daisy chaining the fixtures.



800 W EVO 8 Bar

Full Spectrum Horticultural Light Retrofit 1:1 1000 W HPS Replacement

















Eco Smart Controller



Controls up to: 30 x UFO LED (0-10 V) 30 x 630 W EVO 30 x 800 W EVO Via RJ14 connection





On/ Off Timing







Temperature / humidity sensor included

Eco Smart Controller

Multi Fixture Controller for 0-10 V LEDs















LED Smart Controller



Controls up to: 160 x UFO LED (0-10 V) 160 x 630 W EVO 160 x 800 W EVO Via RJ14 connection (80 per room)



On/ Off Timing



Sunrise & Sunset



Temperature & Humidity



Touch Screen



Simultaneous Dual Room Control





Control Two Rooms Simultaneously















780 W EVO Smart Controller



Controls up to: 80 x 780 W EVO Via RS-485 connection





On/ Off Timing



Sunrise & Sunset



Temperature & Humidity



Touch Screen



PPFD output control

Smart Controller for 780 W EVO 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 W EVO LED & 780 W EVO LED Bars are all stand alone grow and bloom fixtures, dependent on the footprint of the grow area.
- 800 W EVO LEDS are suitable for commercial facilities.
- 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.

LED Growing Tips



E800 8 Bar

780 W 8 Bar

	Total PPF			140 µmol/s	210 µmol/s	420 μmol/s	620 µmol/s	1050 μmol/s	1760 μmol/s	2000 μmol/s	2400 μmol/s	
PPF Efficacy			2.4 µmol/J	2.1 μmol/J	2.1 μmol/J	2.1 μmol/J	2.1 μmol/J	2.8 µmol/J	2.82 μmol/J	3.0 µmol/J	1	
Kelvin			6.5K	4 K	4 K	4 K	4 K	4.3 K	3.8 / 4.2K	4 K	1	
CRI		90	90	90	90	90	88.2	91	90	7		
Effective Coverage		0.25 m ²	0.25 m ²	0.56 m ²	1 m²	1.44 m ²	1.44 m ²	2.25 m ²	2.25 m ²			
	Output PPFD (µmol/	/m2/s).		250 @ 30 cm	342 @ 30 cm	730 @ 30 cm	1250 @ 30 cm	1297 @ 40 cm	1220 @ 30 cm	1411 @30 cm	1870 @30 cm]`\
	STAGE DLI PPFD Recommended Height Of LED Fixture Above The Canopy @ 100% Intensity											
	Unrooted Clones	& Seeds (1	18 hour Pho	toperiod)								1
	7-14 days	8	125	50 cm	70 cm	-	-	-	-	-	-	
	Rooted Clones & S	Seedlings	(18 hour Ph	otoperiod)				•				
	Week 1	12	200	40 cm	55 cm	90 cm	105 cm	-	-	-	-	7
	Week 2	16	250	30 cm	45 cm	80 cm	95 cm	115 cm	127 cm	-	-	1
	Week 3	19	300	25 cm	30 cm	77 cm	85 cm	105 cm	125 cm	-	-]
	Mother Plants	35	550	-	18 cm	50 cm	67 cm	80 cm	80 cm	88 cm	140 cm	1
	Vegetative (18 hor	ur Photop	eriod)					•				-
	Week 1	25	400	15 cm	25 cm	70 cm	78 cm	95 cm	100 cm	110 cm	160 cm	1
	Week 2	30	475	10 cm	22 cm	55 cm	76 cm	88 cm	90 cm	100 cm	150 cm	1
	Week 3	35	550	-	18 cm	50 cm	74 cm	80 cm	80 cm	88 cm	140 mm	
	Week 4	40	625	-	15 cm	44 cm	61 cm	76 cm	70 cm	80 cm	130 mm	
	Week 5	43	675	-	10 cm	38 cm	58 cm	73 cm	66 cm	75 cm	125 mm]
Flowering (12 hour Photoperiod)												
	Week 1	30	700	-	-	32 cm	55 cm	72 cm	62 cm	70 cm	122 cm	7
	Week 2	35	825	-	-	28 cm	50 cm	66 cm	57 cm	62 cm	100 cm]
	Week 3	40	940	-	-	25 cm	47 cm	58 cm	48 cm	55 cm	87 cm	
	Week 4	45	1050	-	-	15 cm	42 cm	53 cm	39 cm	48 cm	71 cm	
	Week 5 - 6	50	1175	-	-	10 cm	33 cm	48 cm	34 cm	40 cm	64 cm	
	Week 7 - 9	45	1050	-	-	15 cm	42 cm	53 cm	39 cm	48 cm	71 cm	

200 W UFO

300 W UFO

500 W UFO

630 W 6 Bar









PRO GROW LED - PPFD User Guide (μmol/m2/s).

60 W 1 Bar

100 W UFO

LED Fixture

INDUSTRY LEADING PERFORMANCE



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