

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:

02

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.



Introducing



03

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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



14 10

Optional Stand 66 L x 46 W x 67 cm H

AMPERAGE @240 V					
60 W	0.25 A				

04

60 W Single Bar

Vegetative Horticultural Light

1000











100 W & 200 W UFO

100 W UFO

210 μmol/s PPFD 2.3 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 2.3 μmol/J Input power: 200 W Weight: 3.5 kg Dimensions: 40 Ø x 12.5 cm High

Easy

- Plug & Play. - Set & Forget.



EXTENDED PAR SPECTRUM GRAPH (ePAR)







Save Energy-efficient LED technology lowers energy usage.



Quiet No cooling fan required



Versatile Full spectrum grow & bloom horticultural lighting from one fixture.

100 W & 200 W UFO

06

Full Spectrum Horticultural Light











300 & 500 W UFO

300 W UFO (0-10 V)

620 μmol/s PPFD 2.3 μmol/J Input power: 300 W Weight: 6 kg Dimensions: 40 Ø x 16.5 cm High

AMPERAGE @240 V						
300 W	1.25 A					
500 W	2.08 A					



Save Energy-efficient LED technology lowers energy usage.



08

Quiet No cooling fan required

500 W UFO (0-10 V)

1050 μmol/s PPFD 2.3 μmol/J Input power: 500 W Weight: 8.6 kg Dimensions: 45 Ø x 23 cm High



Easy - Plug & Play. - Set & Forget.



Versatile Full spectrum grow & bloom horticultural lighting from one fixture.

EXTENDED PAR SPECTRUM GRAPH (ePAR)



300 & 500 W UFO (0-10 V)

Full Spectrum Horticultural Light

1-1











EFFEG



630 W EVO 6 Bar

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



600

700

500

400

50 W / 380 W / 500 W / 630 W Remote ballast installation up to 1.8 m from unit with included extension cable.

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

12



Increased Blue

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



0.6

04

0.2

350

Channel 1- Grow Stage

400 450 500 550 600 650 700 750



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



LED - MODEL Z















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			

14



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.





Up to 80 LED fixtures

Up to 80 LED fixtures

800 W EVO 8 Bar

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



E300-430V









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





Temperature / humidity sensor included

16

Eco Smart Controller

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)



Temperature & Humidity









Simultaneous Dual Room Control





LED Smart Controller

Control Two Rooms Simultaneously











780 W EVO Smart Controller



Smart Controller for 780 W EVO LED

a











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.



PRO GROW LED -	PPFD Use	r Guide (µn	nol/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	E800 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	2.3 µmol/J	2.3 µmol/J	2.3 µmol/J	2.3 µmol/J	2.8 µmol/J	2.82 µmol/J	3.0 µmol/J
Kelvin			6.5K	4 K	4 K	4 K	4 K	4.3 K	3.8 / 4.2K	4 K
CRI			90	90	90	90	90	88.2	91	90
Effective Coverage	Effective Coverage			0.25 m ²	0.56 m ²	1 m ²	1.44 m ²	1.44 m ²	2.25 m ²	2.25 m ²
Output PPFD (µmo	ol/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 Clone	s & Seeds (18 hour Pho	otoperiod)							
7-14 days	8	125	50 cm	70 cm	-	-	-	-	-	-
Rooted Clones &	& Seedlings	(18 hour Pl	notoperiod)							
Week 1	12	200	40 cm	55 cm	90 cm	105 cm	-	-	-	-
Week 2	16	250	30 cm	45 cm	80 cm	95 cm	115 cm	127 cm	-	-
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
Vegetative (18 h	our Photop	period)								
Week 1	25	400	15 cm	25 cm	70 cm	78 cm	95 cm	100 cm	110 cm	160 cm
Week 2	30	475	10 cm	22 cm	55 cm	76 cm	88 cm	90 cm	100 cm	150 cm
Week 3	35	550	1 -	18 cm	50 cm	74 cm	80 cm	80 cm	88 cm	140 mm
Week 4	40	625	- 1	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 ho	our Photop	eriod)								
Week 1	30	700	-	-	32 cm	55 cm	72 cm	62 cm	70 cm	122 cm
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

15 cm

42 cm

PPFD User Guide

Week 7 - 9

1050

45



39 cm

48 cm

53 cm



71 cm

INDUSTRY LEADING PERFORMANCE



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