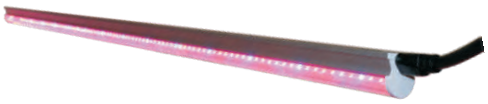
OPALUS

RE-IMAGINING HOW TECHNOLOGY CAN EMPOWER THE WORLD

LED Grow Lights

T8 Integrated Series



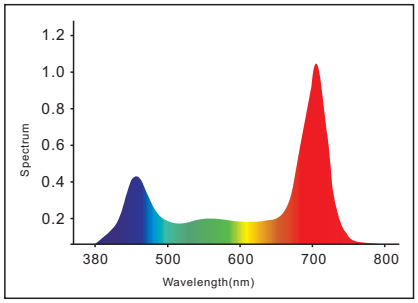
Features

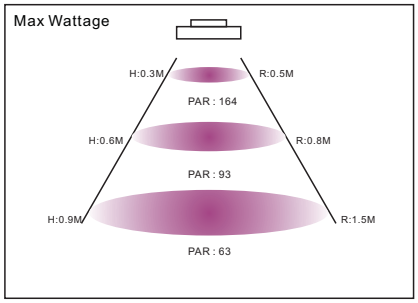
- Adjustable power consumption and lumination area
- High power branded Epileds with high Par Value
- Including Special spectrum like IR (Infrared) to increasing the yield.
- Passive heat sink and integrated driver
- Energy Saving, environmental friendly
- Much more easier repairing and replacement in the future

Applications

- Hydroponics, Horticulture, Agriculture and Greenhouse
- Seeding, Rooting, Breeding, Flowering and Fruiting period
- Locations: Farm, Exhibition, Garden, Home, Urban, Bonsai, and University Lab
- Growth of Fruits, Vegetables, Flowers and so on

Typical Spectrum





Typical model specification

Product Number	IP Rate	Power	Light Spectrum	Heigh above plants (m)	PAR			Input Voltage	Lifespan
					0.3M	0.6M	0.9M		
ZY-T8-10W600	IP40	10W	Red and Blue	0.4-2.5 meter	89	61	32	AC100-277V	50000 hours
ZY-T8-15W900	IP40	15W	Red and Blue	0.4-2.5 meter	85	58	27	AC100-277V	50000 hours
ZY-T8-20W1200	IP40	20W	Red and Blue	0.4-2.5 meter	98	64	33	AC100-277V	50000 hours
ZY-T8-30W1500	IP40	30W	Red and Blue	0.4-2.5 meter	116	71	40	AC100-277V	50000 hours
ZY-T8-40W1800	IP40	40W	Red and Blue	0.4-2.5 meter	156	98	65	AC100-277V	50000 hours
ZY-T8-60W2400	IP40	60W	Red and Blue	0.4-2.5 meter	164	93	63	AC100-277V	50000 hours

Aluminum Bar Light Series

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Features

- Vertical wall setups
- Stacked or racked multi-layer systems such as fodder systems
- Free hanging lighting between plant rows
- Outside/inside edge lighting in grow tents
- Vertical plant lighting in trellised greenhouses for climbing plants such as cucumbers
- Flexible design. You can choose to light your plants by connecting the 4 pcs light bars in a linear line. You can also choose to double the light for your plants by connecting 2 pieces LED light bars in parallel.

Applications

- Hydroponics, Horticulture, Agriculture and Greenhouse
- Seeding, Rooting, Breeding, Flowering and Fruiting period
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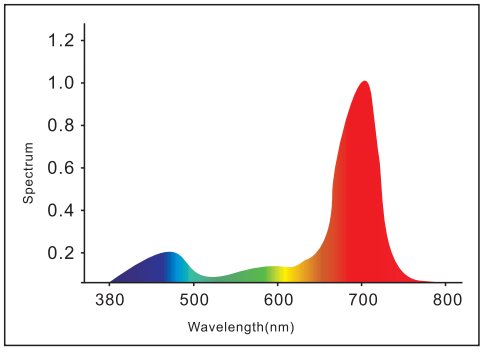
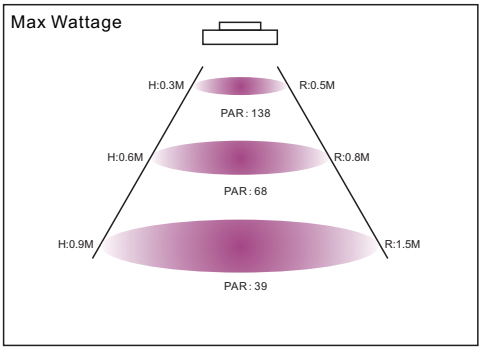
- Growth of Fruits, Vegetables, Flowers and so on

Typical Spectrum





Typical model specification

Product Number	IP Rate	Power	Light Spectrum	Heigh above plants (m)	PAR			Input Voltage	Lifespan
					0.3M	0.6M	0.9M		
ZY-A30W600 EYZ	IP65	30W	Red and Blue	0.4-2.5 meter	136	59	26	AC100-264V	50000 hours
ZY-A40W900 EYZ	IP65	40W	Red and Blue	0.4-2.5 meter	132	55	30	AC100-264V	50000 hours
ZY-A70W1200 EYZ	IP65	70W	Red and Blue	0.4-2.5 meter	138	68	39	AC100-264V	50000 hours

Two-Side Light Series

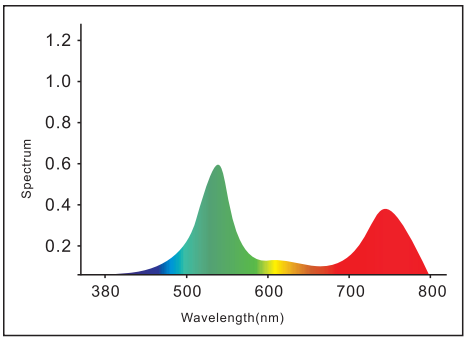
Features

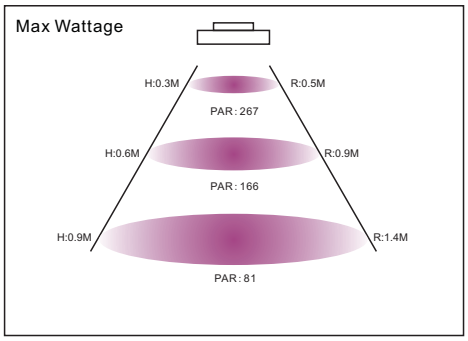
- Optimized Driving Current Increases Diode Efficiency and Output, Resulting in a Brighter, Higher Yielding Footprint
- EASY INTALL-This led grow strip light has low power consumption high luminous efficiency and long service life, secure and easy application,stable performance Led strip
- Two-sided luminescence amplifies PAR value and increases penetration by up to 200%
- Sturdy Craftsmanship & Durable Design, Sealed to IP 65 Standard, Offering Complete Resistant to Dust & Water

Applications

- Hydroponics, Horticulture, Agriculture and Greenhouse
- Seeding, Rooting, Breeding, Flowering and Fruiting period
- Locations: Farm, Exhibition, Garden, Home, Urban, Bonsai, and University Lab
- Growth of Fruits, Vegetables and so on

Typical Spectrum





Typical model specification

Product Number	IP Rate	Power	Light Spectrum	Heigh above plants (m)	PAR			Input Voltage	Lifespan
					0.3M	0.6M	0.9M		
GL-S30W600	IP65	30W	Red and Blue	0.4-2.5 meter	229	146	79	AC100-277V	50000 hours
GL-S45W900	IP65	45W	Red and Blue	0.4-2.5 meter	250	150	75	AC100-277V	50000 hours
GL-S60W1200	IP65	60W	Red and Blue	0.4-2.5 meter	220	142	73	AC100-277V	50000 hours
GL-S70W1500	IP65	70W	Red and Blue	0.4-2.5 meter	251	161	78	AC100-277V	50000 hours
GL-S90W1800	IP65	90W	Red and Blue	0.4-2.5 meter	260	165	80	AC100-277V	50000 hours
GL-S120W2400	IP65	120W	Red and Blue	0.4-2.5 meter	267	166	81	AC100-277V	50000 hours

Multiple Linear Series

Features

- this product integrated heat sink and driver, extrusion pure aluminum can 100% ensure heat dissipation.
- Adjustable power consumption and lumination area
- High power branded Epileds with high Par Value
- Including Special spectrum like IR (Infrared) to increasing the yield.
- Passive heat sink and integrated driver
- Energy Saving, environmental friendly
- Adjustable linear bar quantity to make much more convenient repair and replacement in the future

Applications

- Hydroponics, Horticulture, Agriculture and Greenhouse
- Seeding, Rooting, Breeding, Flowering and Fruiting period
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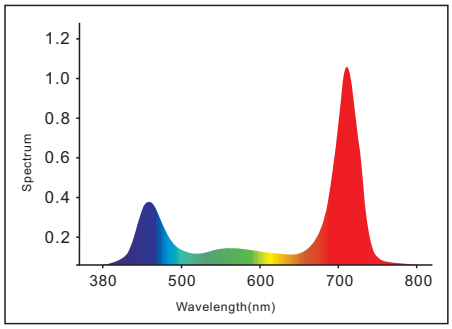
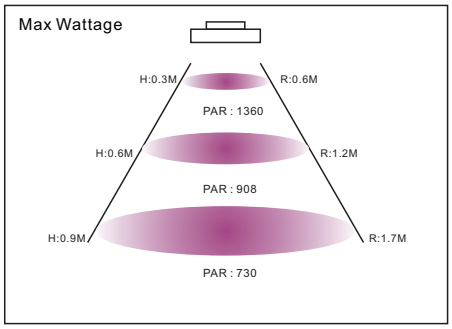
Typical Spectrum

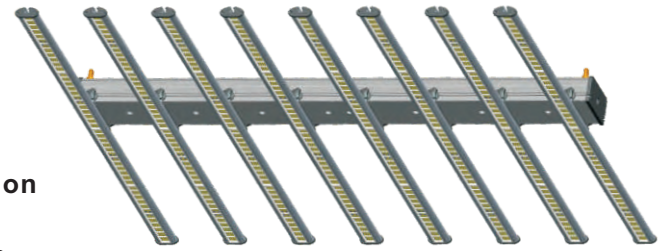




Typical model specification

Product Number	IP Rate	Power	Light Spectrum	Heigh above plants (m)	PAR			Input Voltage	Lifespan
					0.3M	0.6M	0.9M		
GL-K250W CYZ	IP44	250W	Full Spectrum	0.4-2.5 meter	1030	754	495	AC100-277V/200-480V	50000 hours
GL-K300W CYZ	IP44	300W	Full Spectrum	0.4-2.5 meter	1180	820	580	AC100-277V/200-480V	50000 hours
GL-K350W CYZ	IP44	350W	Full Spectrum	0.4-2.5 meter	1320	885	676	AC100-277V/200-480V	50000 hours
GL-K400W CYZ	IP44	400W	Full Spectrum	0.4-2.5 meter	1360	908	730	AC100-277V/200-480V	50000 hours

KD Permutation series



Features

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- Adjustable power consumption and lumination area
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- Including Special spectrum like IR (Infrared) to increasing the yield.
- Passive heat sink and integrated driver
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Applications

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- Seeding, Rooting, Breeding, Flowering and Fruiting period
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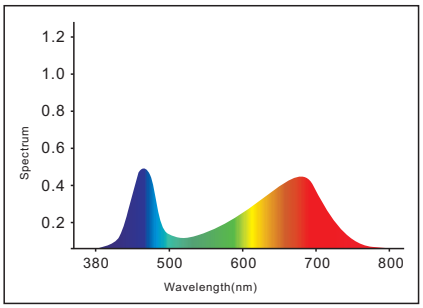
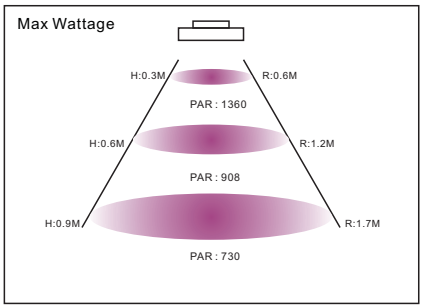
Typical Spectrum





Typical model specification

Product Number	IP Rate	Power	Light Spectrum	Heigh above plants (m)	PAR			Input Voltage	Lifespan
					0.3M	0.6M	0.9M		
GL- L250W DYZ	IP44	250W	Full Spectrum	0.4-2.5 meter	1030	754	495	AC100-277V/200-480V	50000 hours
GL- L300W DYZ	IP44	300W	Full Spectrum	0.4-2.5 meter	1180	820	580	AC100-277V/200-480V	50000 hours
GL- L350W DYZ	IP44	350W	Full Spectrum	0.4-2.5 meter	1320	885	676	AC100-277V/200-480V	50000 hours
GL- L400W DYZ	IP44	400W	Full Spectrum	0.4-2.5 meter	1360	908	730	AC100-277V/200-480V	50000 hours

Square Waterproof Series

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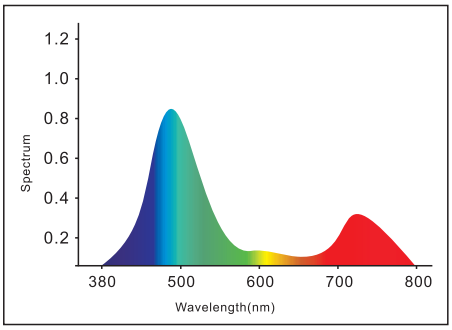
Features

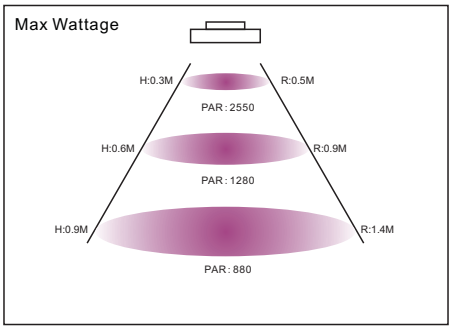
- this product integrated heat sink and driver, extrusion pure aluminum can 100% ensure heat dissipation.
- Adjustable power consumption and lumination area
- High power branded Epileds with high Par Value
- Including Special spectrum like IR (Infrared) to increasing the yield.
- Passive heat sink and integrated driver
- Energy Saving, environmental friendly
- Adjustable linear bar quantity to make much more convenient repair and replacement in the future

Applications

- Hydroponics, Horticulture, Agriculture and Greenhouse
- Seeding, Rooting, Breeding, Flowering and Fruiting period
- Locations: Farm, Exhibition, Garden, Home, Urban, Bonsai, and University Lab
- Growth of Fruits, Vegetables, Flowers and so on

Typical Spectrum





Typical model specification

Product Number	IP Rate	Power	Light Spectrum	Heigh above plants (m)	PAR			Input Voltage	Lifespan
					0.3M	0.6M	0.9M		
GL-T100W600	IP65	100W	Full Spectrum	0.4-2.5 meter	1420	820	600	AC100-277V	50000 hours
GL-T200W600	IP65	200W	Full Spectrum	0.4-2.5 meter	1540	870	640	AC100-277V	50000 hours
GL-T300W900	IP65	300W	Full Spectrum	0.4-2.5 meter	1666	910	670	AC100-277V	50000 hours
GL-T400W900	IP65	400W	Full Spectrum	0.4-2.5 meter	1806	1010	720	AC100-277V	50000 hours
GL-T500W1200	IP65	500W	Full Spectrum	0.4-2.5 meter	2260	1180	805	AC100-277V	50000 hours
GL-T600W1200	IP65	600W	Full Spectrum	0.4-2.5 meter	2550	1280	880	AC100-277V	50000 hours

Features

- On/off devices to make control more easier
- Step dimming for different period of growth
- Adjustable power consumption and lumination area
- High power branded Epileds with high Par Value
- Including Special spectrum like IR (Infrared) to increasing the yield.
- Passive heat sink and integrated driver
- Energy Saving, environmental friendly
- Much more easier repairing and replacement in the future

Applications

- Hydroponics, Horticulture, Agriculture and Greenhouse
- Seeding, Rooting, Breeding, Flowering and Fruiting period
- Locations: Farm, Exhibition, Garden, Home, Urban, Bonsai, and University Lab
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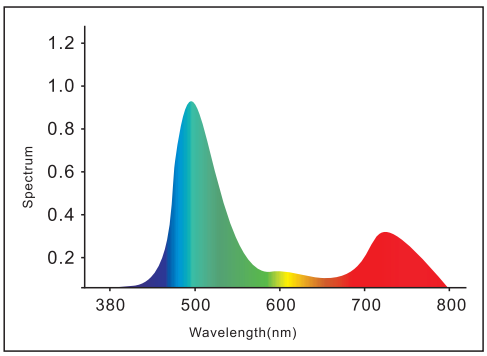
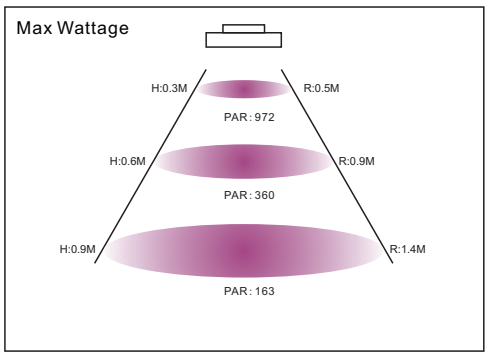
Typical Spectrum



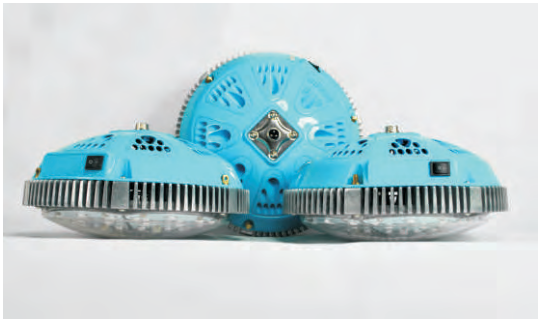


Typical model specification

Product Number	IP Rate	Power	Light Spectrum	Heigh above plants (m)	PAR			Input Voltage	Lifespan
					0.3M	0.6M	0.9M		
GL-M100W EYZ	IP40	100W	Full Spectrum	0.4-2.5 meter	729	246	119	AC100-277V	50000 hours
GL-M200W EYZ	IP40	200W	Full Spectrum	0.4-2.5 meter	740	253	126	AC100-277V	50000 hours
GL-M300W EYZ	IP40	300W	Full Spectrum	0.4-2.5 meter	850	320	145	AC100-277V	50000 hours
GL-M400W EYZ	IP40	400W	Full Spectrum	0.4-2.5 meter	972	360	163	AC100-277V	50000 hours

UFO Series

Features



- Modularity design
- For Indoor Plants, Vegetables & Flowers
- Replaces 250w to 400w HPS/MH
- Advanced LED Drivers for Higher Performance
- High hardness ABS, PC material housing offer an additional level of safety.
- Customizable spectrum
- Energy Saving, environmental friendly
- Cambered LED panel with 150°wide beam angle, more evenly in light delivery and larger in lighting coverage.
- Superior seismic performance: when bare light without any protection, a 0.4M-height fallen to the ground would not cause any damage.

Applications

- Hydroponics, Horticulture, Agriculture and Greenhouse
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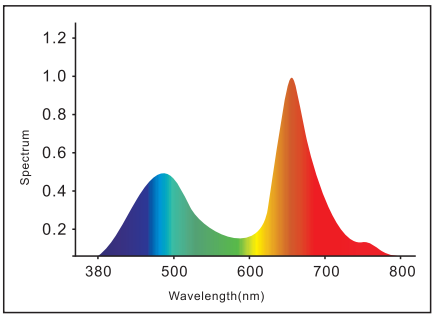

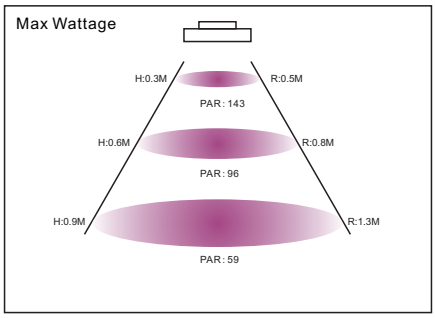

Typical model specification

Product Number	IP Rate	Power	Light Spectrum	Heigh above plants (m)	PAR			Input Voltage	Lifespan
					0.3M	0.6M	0.9M		
GL-N90W DYZ	IP40	90W	Full Spectrum	0.4-2.5 meter	126	85	43	AC100-264V	50000 hours
GL-N140W DYZ	IP40	140W	Full Spectrum	0.4-2.5 meter	143	96	59	AC100-264V	50000 hours

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Apollo Series

Features

- Use 3W high quality LED lighting source
- Step dimming for different period of growth
- Adjustable power consumption and lumination area
- High power branded Epileds with high Par Value
- Replace 3~5 times of the HPSL power, 80% electric energy saving than the tradition HPSL and MHL.
- High lighting effect, 90% of the light will be absorbed by the aquatic plant, but to the traditional HPSL and MHL, the lighting effect is just 8%~10%.
- Environment-friendly, no mercury and other harmful heavy metal

Applications

- Hydroponics, Horticulture, Agriculture and Greenhouse
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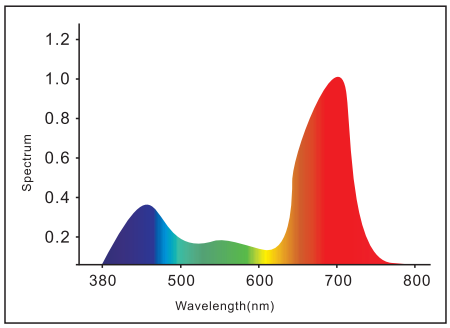

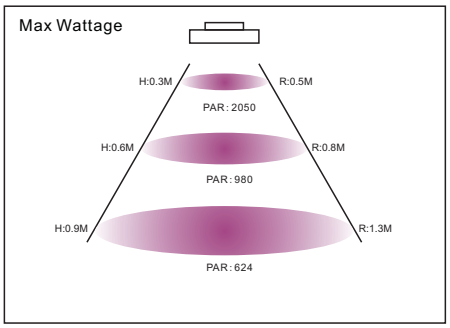

Typical model specification

Product Number	IP Rate	Power	Light Spectrum	Heigh above plants (m)	PAR			Input Voltage	Lifespan
					0.3M	0.6M	0.9M		
GL-A120W CYZ	IP40	120W	Full Spectrum	0.4-2.5 meter	1570	425	190	AC100-264V	50000 hours
GL-B180W CYZ	IP40	180W	Full Spectrum	0.4-2.5 meter	1590	470	208	AC100-264V	50000 hours
GL-C240W CYZ	IP40	240W	Full Spectrum	0.4-2.5 meter	1800	641	294	AC100-264V	50000 hours
GL-D300W CYZ	IP40	300W	Full Spectrum	0.4-2.5 meter	1828	800	373	AC100-264V	50000 hours
GL-E360W CYZ	IP40	360W	Full Spectrum	0.4-2.5 meter	1850	850	445	AC100-264V	50000 hours
GL-F480W CYZ	IP40	480W	Full Spectrum	0.4-2.5 meter	2000	955	565	AC100-264V	50000 hours
GL-G540W CYZ	IP40	540W	Full Spectrum	0.4-2.5 meter	2030	970	587	AC100-264V	50000 hours
GL-H600W CYZ	IP40	600W	Full Spectrum	0.4-2.5 meter	2050	980	624	AC100-264V	50000 hours

Magic Square Series

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Features

- New silent big fans will be more long-lasting, decreasing 50% noise
- Replace double power of the HPSL, 50% electric energy saving than the tradition HPSL and MH
- High lighting effect, 90% of the light will be absorbed by the plant, it's only 8%~10% to the traditional HPSL and MHL
- Environment-friendly, no mercury and other harmful heavy metal.
- On the principle of the secondary optical design, 90 degree secondary condenser lens make it high brightness and strong penetrability
- Using thicken Aluminum PCB, easier maintenance and better heat transfer than the traditional glass fiber board.

Applications

- Hydroponics, Horticulture, Agriculture and Greenhouse
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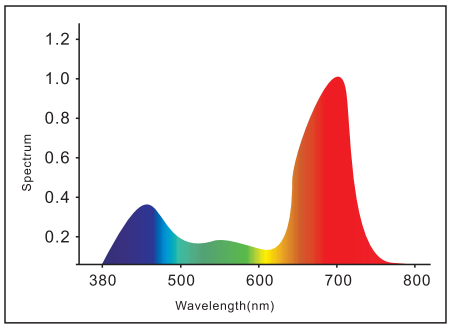

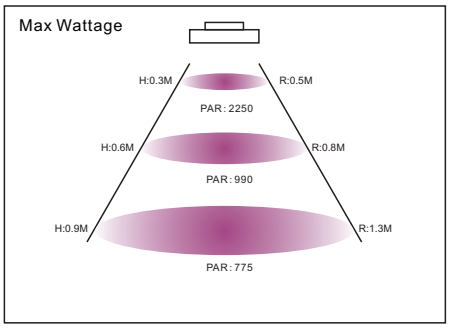

Typical model specification

Product Number	IP Rate	Power	Light Spectrum	Heigh above plants (m)	PAR			Input Voltage	Lifespan
					0.3M	0.6M	0.9M		
GL-M600W DYZ	IP40	600W	Full Spectrum	0.4-2.5 meter	2250	990	775	AC100-264V	50000 hours

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COB Series

Features

- Patented unique design of reflective cup and lens for higher light-gathering effect
- High PAR value and Lux value than normal led grow light, reducing light and Par value loss
- High PPFD, the PPFD is 1360 μmol/m2/sec at the height of 18 inch
- Compared to normal LED grow light by secondary lens and normal single lens, our latest integrated COB of LEDs effectively improves much the color uniformity and luminous efficiency, which makes it more powerful in the vegetative stage and blooming stage of your plants.
- every module and led driver could be replace in one minute

Applications

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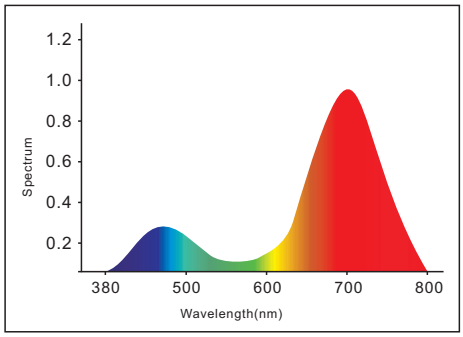
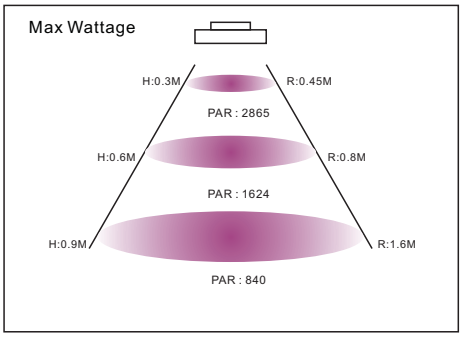




Typical model specification

Product Number	IP Rate	Power	Light Spectrum	Heigh above plants (m)	PAR			Input Voltage	Lifespan
					0.3M	0.6M	0.9M		
GL-A50W AYZ	IP40	50W	Full Spectrum	1.0-1.5 meter	1234	284	138	AC100-277V	50000 hours
GL-B100W AYZ	IP40	100W	Full Spectrum	1.0-1.5 meter	1480	390	180	AC100-277V	50000 hours
GL-C200W AYZ	IP40	200W	Full Spectrum	1.0-1.5 meter	1600	505	220	AC100-277V	50000 hours
GL-D300W AYZ	IP40	300W	Full Spectrum	1.0-1.5 meter	1890	810	385	AC100-277V	50000 hours
GL-E450W AYZ	IP40	450W	Full Spectrum	1.0-1.5 meter	2550	1260	560	AC100-277V	50000 hours
GL-F800W AYZ	IP40	800W	Full Spectrum	1.0-1.5 meter	2865	1624	840	AC100-277V	50000 hours

Traditional High Bay Series

OPALUS

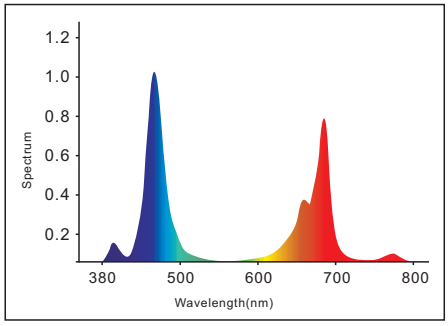
Features

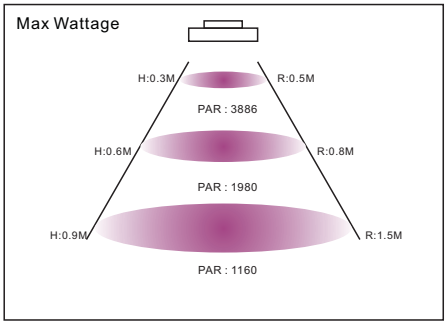
- Most efficient for photosynthesis NEW Full spectrum
- Overheat Protection:Two cooling fans in every kit, keep the lights working longer
- Every led has a resistance to keep them work separately
- UV function sterilizes growth and kills bacteria which seriously influence plant's growth and ability to produce abundant healthy flowers.
- The IR function promotes cell division which improves growth in both vegetation and flowering phases. This can increase yield to a certain degree.

Applications

- High power branded Epileds with high Par Value
- Lighting even, effective
- Including Special spectrum like IR (Infrared) to increasing the yield.
- Wide and narrow optics for uniform illumination
- Top quality fans, anti-noise
- Energy Saving, environmental friendly

Typical Spectrum





Typical model specification

Product Number	IP Rate	Power	Light Spectrum	Heigh above plants (m)	PAR			Input Voltage	Lifespan
					0.3M	0.6M	0.9M		
GL-B120W BYZ	IP40	120W	Full Spectrum	0.5-1 meter	1981	1020	565	AC100-277V	50000 hours
GL-C240W BYZ	IP40	240W	Full Spectrum	0.5-1 meter	2565	1340	780	AC100-277V	50000 hours
GL-I 400W BYZ	IP40	400W	Full Spectrum	0.5-1 meter	3886	1980	1160	AC100-277V	50000 hours