

植物照明系列产品

Horticultural LEDS

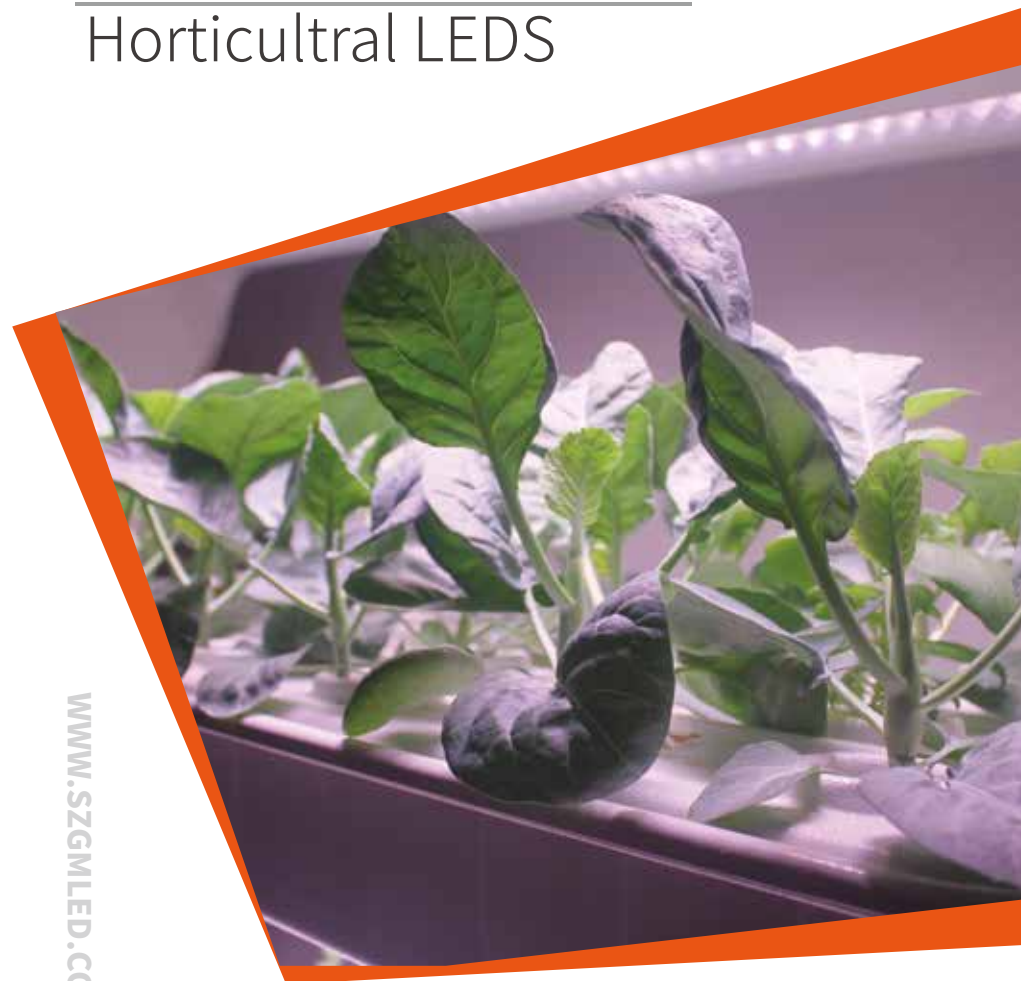


深圳市光脉电子有限公司

SHENZHEN GUANGMAI ELECTRONICS CO.,LTD.

地址: 深圳市宝安区福永街道桥头社区金港科技园B栋4-5楼
电话: 0755-23499599 传真: 0755-23497717
QQ: 2850636558 邮箱: 2850636558@qq.com
联系人: 叶先生 18923790101
网址: www.szgmled.com

Address: B Building, Jingang Tech Park, Fuyong, Baoan District, Shenzhen
Tel: 0086-0755-23499599 Fax: 0086-0755-23497717
QQ: 2850636558 E-mail: 2850636558@qq.com
Contact: Bill Ye 0086-18923790101
Website: www.szgmled.com



WWW.SZGMLED.COM



Growing Fixtures Chips-2835 植物灯光源-2835

高PPF/PPE值 | High PPF/PPE

全光谱 | Full Spectrum Available

可根据苗期、生长、开花、结果不同阶段定制服务
Customization services for different stages.
From Seeding, Growth, Flowering to Fruiting

精准提供波长 | Provide Precise Wavelength

精确控制植物的内部时钟
Accurate key wavelength of photon absorption by plants

多样化 | Diversify

封装类型多样化
Diversity of package types

高可靠性 | High Reliability

植物灯光源-2835

Growing Fixtures chips-2835

产品特征

- 高PPF值、高PPE
- 发光角度:120°
- 基于光合光子通量 (PPF)分档及测试
- 全光谱, 可根据苗期、生长、开花、结果不同阶段定制服务
- 红光产品PPE 2.5 μmol/J
- 精准提供植物吸收光子关键波长 (蓝光450nm、深红660nm、远红光730nm)
- 0.2w, 0.5w, 1w三种不同功率
- LM-80认证



Features

- High PPF,High PPE
- Lighting degrees:120 degrees
- Binning and Testing based on Photosynthetic Photon Flux(PPF)
- Full spectrum available;Customization services for different stages from seedling, Growth,Flowering to Fruiting
- Red led PPE 2.5 μmol/J
- It can provide precise wavelength photons key (Blue 450nm Deep red 660nm far red 730nm)
- 0.2w, 0.5w, 1w to meet different lighting requirements
- LM80 Certificate



产品型号 LED Type	封装 Package	功率 (w) Power	电流 (mA) Electricity	电压 (V) Voltage	色温/波长 (nm) Wavelength	PPE (μmol/J) PPE	发光颜色 Color
GS-2835B4	PCT2835	0.2	60	3.0-3.4	450	2.0-2.2	B
GS-2835R6	PCT2835	0.2	60	2.0-2.4	660	2.2-2.4	DR
GS-2835R7	PCT2835	0.2	60	1.6-2.0	730	50mw	FR
GS-2835B4	PCT2835	0.5	150	3.0-3.4	450	2.0-2.2	B
GS-2835R6	PCT2835	0.5	150	2.0-2.4	660	2.2-2.4	DR
GS-2835R7	PCT2835	0.5	150	1.6-2.0	730	100mw	FR
GS-2835B4	PCT2835	1	300	3.0-3.4	450	2.0-2.2	B
GS-2835R6	PCT2835	1	300	2.0-2.4	660	2.2-2.4	DR
GS-2835R7	PCT2835	1	300	1.6-2.0	730	200mw	FR



Growing Fixtures Chips-3030 植物灯光源-3030

高PPF/PPE值 | High PPF/PPE

全光谱 | Full Spectrum Available

可根据苗期、生长、开花、结果不同阶段定制服务
Customization services for different stages.
From Seeding, Growth, Flowering to Fruiting

精准提供波长 | Provide Precise Wavelength

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Accurate key wavelength of photon absorption by plants

多样化 | Diversify

封装类型多样化
Diversity of package types

高可靠性 | High Reliability

植物灯光源-3030

Growing Fixtures chips-3030

产品特征

- 高PPF值、高PPE
- 发光角度:60-120°
- 基于光合光子通量 (PPF)分档及测试
- 全光谱,可根据苗期、生长、开花、结果不同阶段定制服务
- 红光产品PPE高达 3.6 $\mu\text{mol}/\text{J}$
- 精准提供植物吸收光子关键波长 (蓝光450nm、深红660nm、远红光730nm)
- LM-80认证



Features

- High PPF,High PPE
- Lighting degrees:60-120 degress
- Binning and Testing based on Photosynthetic Photon Flux(PPF)
- Full spectrum available;Customization services for different stages from seedling, Growth,Flowering to Fruiting
- Fruiting Red led PPE 3.6 $\mu\text{mol}/\text{J}$
- It can provide precise wavelength photons key (Blue 450nm Deep red 660nm far red 730nm)
- LM80 Certificate



产品型号 LED Type	封装 Package	功率 (w) Power	电流 (mA) Electricity	电压 (V) Voltage	色温/波长 (nm) Wavelength	PPE ($\mu\text{mol}/\text{J}$) PPE	发光颜色 Color
GS-3030R6-1125球头	PCT3030	0.2-1	300	2.0-2.2	660	3.0-3.6	DR
GS-3030R7-1101球头	PCT3030	0.2-1	300	1.6-2.0	730	300-400mw	FR
GS-3030R6-1025	PCT3030	0.2-1	300	2.0-2.2	660	2.8-3.1	DR
GS-3030B4-2020	PCT3030	0.2-1	300	3.0-3.4	450	2.0-2.5	B
GS-3030R7-1001	PCT3030	0.2-1	300	1.6-2.0	730	200-300mw	FR
GS-3030ZW3-30140	PCT3030	0.2-1	90	2.7-2.9	3000K	2.8-3.1	W
GS-3030ZW3-30140	PCT3030	0.2-1	90	2.7-2.9	4000K	2.8-3.1	W
GS-3030ZW6-30140	PCT3030	0.2-1	90	2.7-2.9	6000K	2.9-3.2	W



Growing Fixtures Chips-3535/3030 植物灯光源-3535/3030

高PPF/PPE值 | High PPF/PPE

全光谱 | Full Spectrum Available

可根据苗期、生长、开花、结果不同阶段定制服务
Customization services for different stages.
From Seeding, Growth, Flowering to Fruiting

精准提供波长 | Provide Precise Wavelength

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Accurate key wavelength of photon absorption by plants

高可靠性 | High Reliability

植物灯光源-陶瓷3535/3030

Growing Fixtures chips-ceramics 3535/3030

产品特点

- 高PPF值、高PPE
- 发光角度:120°
- 基于光合光子通量 (PPF) 分档及测试
- 全光谱, 可根据苗期、生长、开花、结果不同阶段定制服务
- 红光产品PPE 4.1 μmol/J
- 精准提供植物吸收光子关键波长 (蓝光450nm、深红660nm、远红光730nm)
- LM-80认证



Features

- High PPF,High PPE
- Lighting degrees:120 degress
- Binning and Testing based on Photosynthetic Photon Flux(PPF)
- Full spectrum available;Customization services for different stages from seedling, Growth,Flowering to Fruiting
- Red led PPE 4.1 μmol/J
- It can provide precise wavelength photons key (Blue 450nm Deep red 660nm far red 730nm)
- LM80 Certificate



产品型号 LED Type	封装 Package	功率(w) Power	电流 (mA) Electricity	电压 (V) Voltage	色温/波长 (nm) Wavelength	PPE (μmol/J) PPE	发光颜色 Color
GT-3535B4	陶瓷3535	1-3	350	3.0-3.4	450	2.0-2.8	B
GT-3535R6	陶瓷3535	1-3	350	2.0-2.2	660	3.0-4.1	DR
GT-3535R7	陶瓷3535	1-3	350	1.6-2.0	730	300mw	FR
GT-3535W3	陶瓷3535	1-3	350	3.0-3.4	4000K	2.8-3.1	W
GT-3535W6	陶瓷3535	1-3	350	3.0-3.4	6000K	2.8-3.1	W
GT-3535W3	陶瓷3535	1-3	350	3.0-3.4	3000K	2.8-3.1	W
GF-3535W6	陶瓷3535	1-3	350	3.0-3.4	6000K	2.8-3.1	W
GT-3030B4	陶瓷3030	1-3	350	3.0-3.4	450	2.0-2.8	B
GT-3030R6	陶瓷3030	1-3	350	2.0-2.2	660	3.0-4.1	DR
GT-3030R7	陶瓷3030	1-3	350	1.6-2.0	730	300mw	FR

植物灯光源-EMC3535

Growing Fixtures chips-EMC3535

产品特点

- 高PPF值、高PPE
- 发光角度:60-120°
- 基于光合光子通量 (PPF)分档及测试
- 全光谱, 可根据苗期、生长、开花、结果不同阶段定制服务
- 红光产品PPE 3.8 μmol/J
- 精准提供植物吸收光子关键波长 (蓝光450nm、深红660nm、远红光730nm)
- LM-80认证



Features

- High PPF,High PPE
- Lighting degrees:60-120 degrees
- Binning and Testing based on Photosynthetic Photon Flux(PPF)
- Full spectrum available;Customization services for different stages from seedling, Growth,Flowering to Fruiting
- Red led PPE 3.8 μmol/J
- It can provide precise wavelength photons key (Blue 450nm Deep red 660nm far red 730nm)
- LM80 Certificate



产品型号 LED Type	封装 Package	功率(w) Power	电流(mA) Electricity	电压(V) Voltage	色温/波长(nm) Wavelength	PPE(μmol/J) PPE	发光颜色 Color
GE-3535B4	EMC3535	1	350	3.0-3.4	450	2.0-2.8	B
GE-3535R5	EMC3535	1	350	2.0-2.2	660	3.0-3.8	DR
GE-3535R7	EMC3535	1	350	1.6-2.0	730	300mw	FR
GE-3535W3	EMC3535	1	350	3.0-3.4	4000K	2.8-3.1	W
GE-3535W6	EMC3535	1	350	3.0-3.4	6000K	2.8-3.1	W
GE-3535W3	EMC3535	1	350	3.0-3.4	3000K	2.8-3.1	W



Growing Fixtures Chips-Hi-power 植物灯光源-大功率

高PPF/PPE值 | High PPF/PPE

全光谱 | Full Spectrum Available

可根据苗期、生长、开花、结果不同阶段定制服务
Customization services for different stages.
From Seeding, Growth, Flowering to Fruiting

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植物灯光源-大功率

Growing Fixtures chips-Hi-power

产品特征

- 高PPF值、高PPE
- 发光角度:120°
- 全光谱,可根据苗期、生长、开花、结果不同阶段定制服务
- 红光产品PPE 4.0 μmol/J
- 精准提供植物吸收光子关键波长(蓝光450nm、深红660nm、远红光730nm)
- LM-80认证



Features

- High PPF,High PPE
- Lighting degrees:120 degrees
- Full spectrum available;Customization services for different stages from seedling, Growth, Flowering to Fruiting
- Fruiting Red led PPE 4.0 μmol/J
- It can provide precise wavelength photons key (Blue 450nm Deep red 660nm far red 730nm)
- LM80 Certificate



产品型号 LED Type	封装 Package	功率(w) Power	电流(mA) Electricity	电压(V) Voltage	色温/波长(nm) Wavelength	PPE(μmol/J) PPE	发光颜色 Color
GP-1WB3	K1	1-3	350	3.0-3.4	450	3.0-3.4	B
GP-1WR6	K1	1-3	350	2.0-2.2	660	2.0-2.4	DR
GP-1WR7	K1	1-3	350	1.6-2.0	730	1.6-2.0	FR
GP-1WF3	K1	1-3	350	3.0-3.4	全光谱	3.0-3.4	P
GP-1WW3	K1	1-3	350	3.0-3.4	3000K	3.0-3.4	W
GP-1WW6	K1	1-3	350	3.0-3.4	6000K	3.0-3.4	W



Growing Fixtures Chips-COB 植物灯光源-集成COB

高PPF/PPE值 | High PPF/PPE

全光谱 | Full Spectrum Available

可根据苗期、生长、开花、结果不同阶段定制服务
Customization services for different stages.
From Seeding, Growth, Flowering to Fruiting

精准提供波长 | Provide Precise Wavelength

精确控制植物的内部时钟
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多样化 | Diversify

封装类型多样化
Diversity of package types

植物灯光源-集成COB

Growing Fixtures chips-Integrated COB

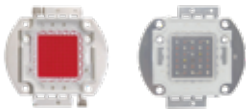
产品特征

- 高PPF值、高PPE
- 发光角度:120°
- 全光谱, 可根据苗期、生长、开花、结果不同阶段定制服务
- 精准提供植物吸收光子关键波长 (蓝光450nm、深红660nm、远红光730nm)
- COB封装可以满足不同灯具和不同场景的需求
- LM-80认证



Features

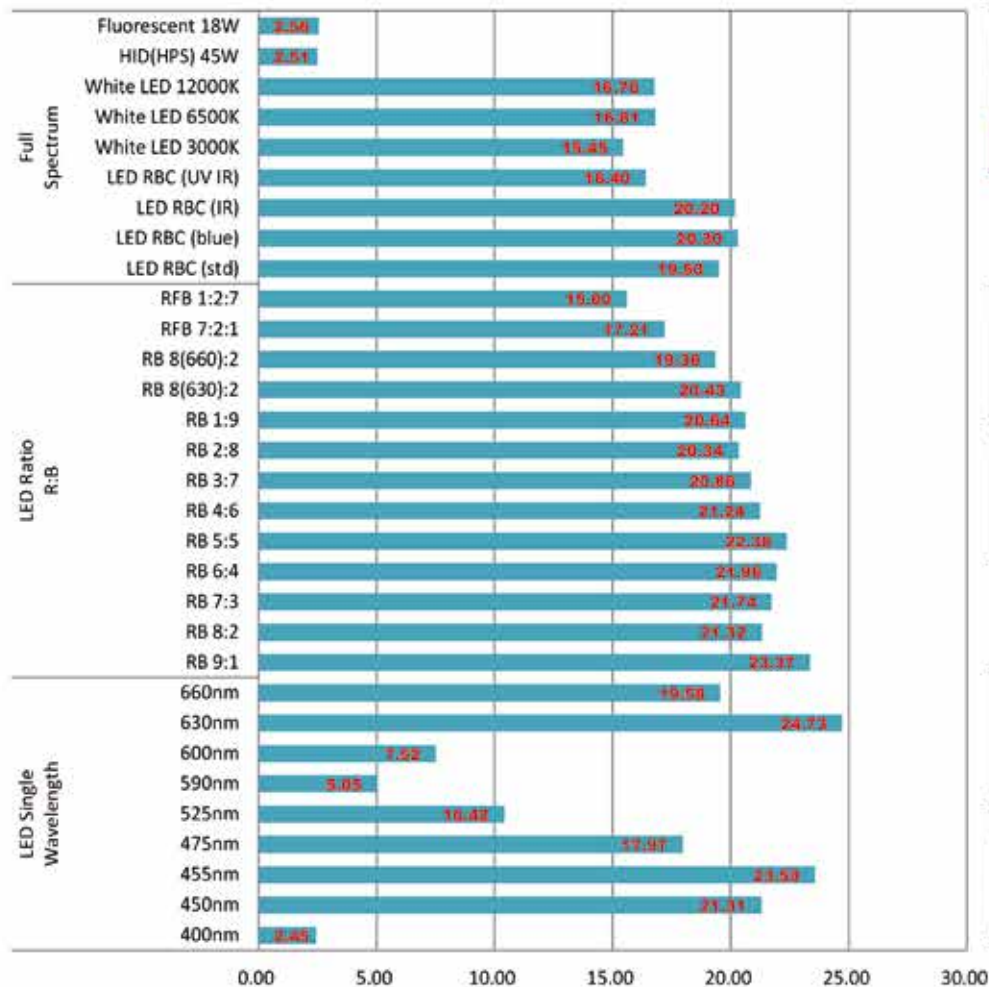
- High PPF,High PPE
- Lighting degrees:120 degrees
- Full spectrum available;Customization services for different stages from seedling, Growth,Flowering to Fruiting
- It can provide precise wavelength photons key (Blue 450nm Deep red 660nm far red 730nm)
- COB with different scenes to meet different lighting requirements
- LM80 Certificate



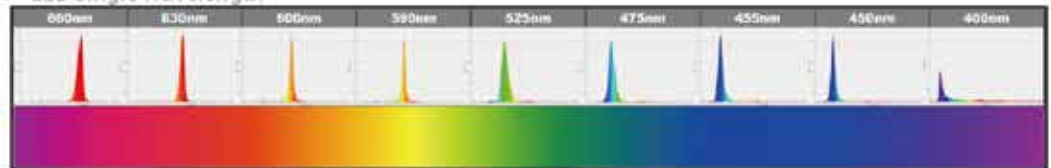
产品型号 LED Type	封装 Package	功率 (w) Power	电流 (mA) Electricity	电压 (V) Voltage	色温/波长 (nm) Wavelength	发光颜色 Color
GP-100WF3	COB	100	3000	30-34	全光谱	P

附件1

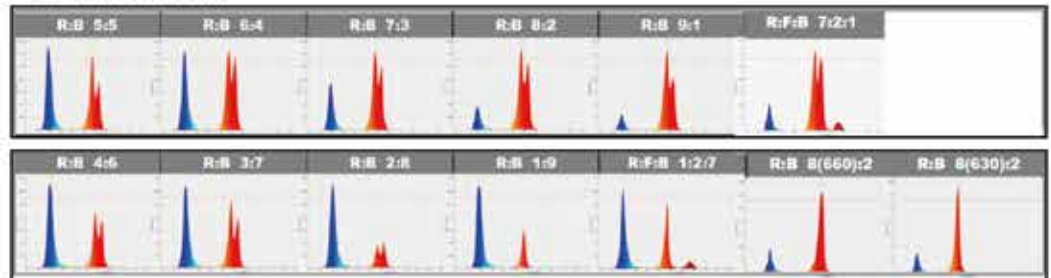
PPFD / Watt



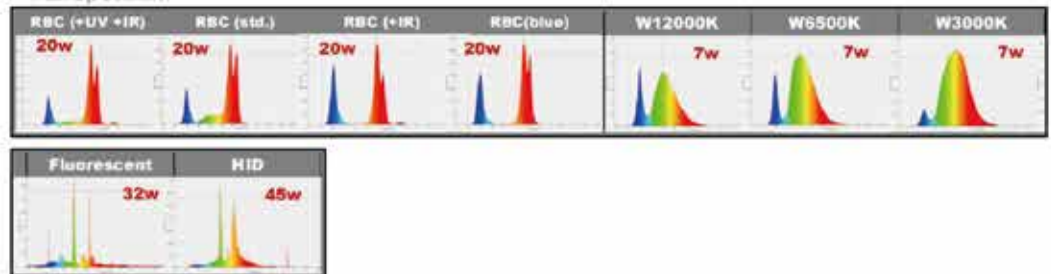
LED Single Wavelength



LED Ratio Red : Blue

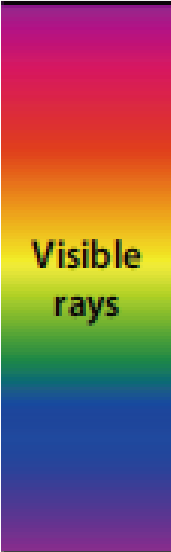


Full Spectrum



附件2

An operation effect a wavelength having on to a plant

wavelength (nm)			Activity effect
Infrared rays	IR-A	1400~1000	No activity detected on plants at this wavelength. Only heat effect.
		780	Stimulate the growth of the plant.
 Visible rays	red	700	Blocks germination (730nm). Photosynthesis operation at 670nm maximum.
		660	Chlorophyll operation at 655nm maximum. Germination operation and flower bud formation and leaf distribution (660nm).
	Red-yellow	610	No benefit on photosynthesis but prevention of harmful insects (580-650nm).
	green - yellow	510	Little absorption by yellow pigments (485nm).
	blue	430~440	Photosynthesis operation at 430nm maximum. Chlorophyll operation at 440nm maximum. Prevention of harmful insects.
Ultraviolet rays	UV-A	400 ~ 315	Leaves of plants can be thickened. Ager promotion operation of pigment. Prevention of harmful insects.
	UV-B	280	Operation highly affecting plants processes, like the immunity formation, etc. May be harmful on plants if this wavelength is too intense.
	UV-C	100	Operation rapidly drying plants.