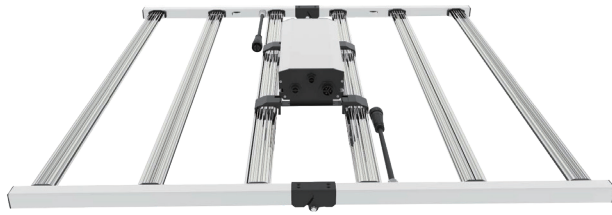


LED TOP LIGHTING

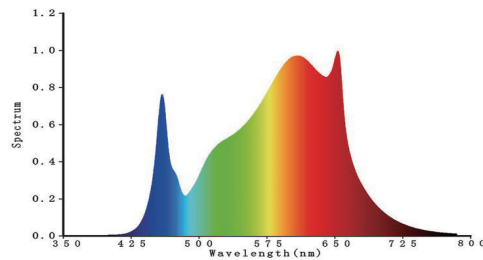


Model	ML-TYN6600A
Frequency	50/60Hz
Input Voltage	100~277VAC / 277~480VAC
Current	6.30~2.27A/2.27~1.31A
Power Consumption	630W
Power Factor	>0.9
PPF	1700 μ mol/s
Efficiency	2.7 μ mol/j
Ingress protection	IP66
Lifetime	50,000hrs
Warranty	5 years
Operational Phase	Grow and Bloom phase
Carton Dimensions	L1195×W1087×H32mm

Key benefits:

- ★ Full-spectrum light output
- ★ DLC/ETL Listed
- ★ High efficiency (2.7 μ mol s⁻¹ per watt)
- ★ High output for high intensity
- ★ Ambient temperatures from 0°C (32°F) to 35°C (95°F)

Product Spectrum :



Sketch Map:



LED TOP LIGHTING

- ELECSUN PRO A11

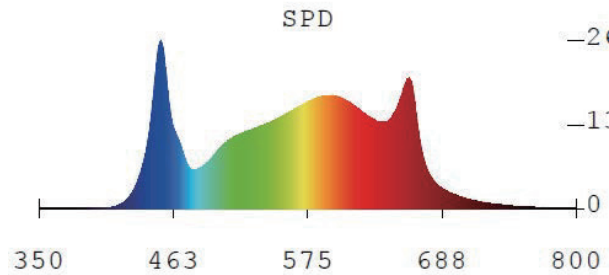


Model	ML-TYT6300B
Frequency	50/60Hz
Input Voltage	100~277VAC / 277~480VAC
Light Output PPF	1700 $\mu\text{mol/s}$
Efficiency	2.7 $\mu\text{mol/J}$ 277VAC
AC Input Power	630W@277VAC
Light Distribution	120°
Max. Ambient Temperature	95°F / 35°C
Dimming	Dimming knob + 0-10V
Ingress Protection	IP66
Lifetime	L90: > 50,000hrs
Certifications	CE, ETL, UL 1598 Wet Location, DLC
Warranty	5years
Dimensions(mm / in)	L1190xW1084xH99mm

Key benefits:

- ★ Full-spectrum light output
- ★ DLC/ETL/CE Listed
- ★ High efficiency (2.7 $\mu\text{mol s}^{-1}$ per watt)
- ★ High output for high intensity
- ★ Ambient temperatures from 0°C (32°F) to 35°C (95°F)

Product Spectrum :



Sketch Map:



LED TOP LIGHTING

-SUNSHINE A SERIES

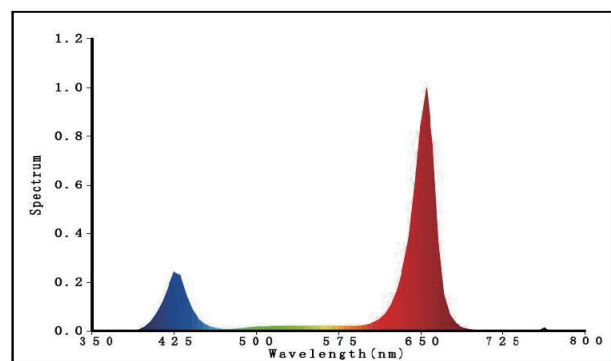
Model	ML-TRH20000
Frequency	50/60Hz
Input Voltage	200~430VAC
Power Consumption	200W
Power Factor	>0.98
PPF	620 μ mol/s
Efficiency	3.1 μ mol/j
Ingress protection	IP66
Lifetime	50,000hrs
Warranty	3 years
Operational Phase	Grow and Bloom phase
Suggested assemble height	<2.0M/6.56ft
Dimensions(mm / in)	L1455×W315×H235mm



Key benefits:

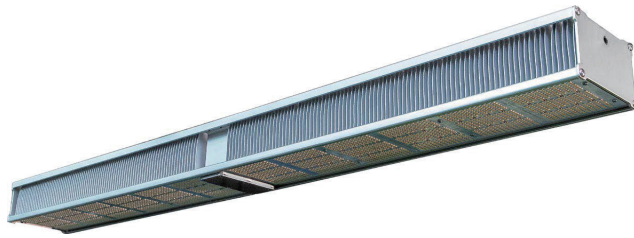
- ★ PPF up to 620 μ mol/s of HO version
- ★ High output for high intensity
- ★ Wieland quick plug
- ★ Adopt the world top-class LED Chips
- ★ CE/ETL/CSA/DLC Listed

Product Spectrum :



LED TOP LIGHTING

-SUNSHINE B SERIES

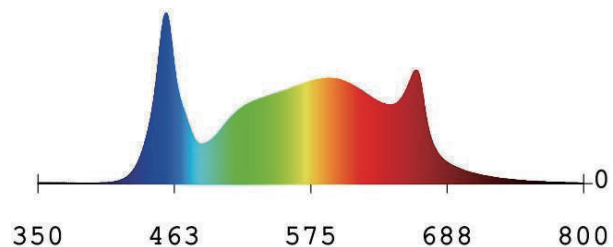


Model	ML-TRW63002
Frequency	50/60Hz
Input Voltage	277~480VAC
Power Consumption	630W @ 277VAC
Power Factor	>0.95
PPF	1700μmol/s
Efficiency	2.7μmol/j
Ingress protection	IP66
Lifetime	L90:>50,000hrs
Operational Phase	Grow and Bloom phase
Suggested assemble height	≥0.46m/18.1 inch
Power	0-10V
Carton Dimensions	L1085×W120×H76mm

Key benefits:

- ★ High quality integrated heating system design
- ★ Famous brand led chips ,various light spectrum available for different needs
- ★ Plug and Play installation, high PPF with less heat to help grow better
- ★ IP66, design for commercial greenhouse
- ★ DLC/ETL Listed
- ★ High efficiency (2.7 μmol s-1 per watt)

Product Spectrum :



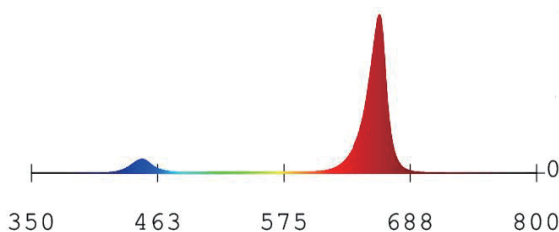
LED Top lighting

-Sunshine A Series

Model	ML-TRV31501
Input voltage	200-400VAC 50/60Hz
Power consumption	315W
Power factor	>0.95
PPF	850μmol/s
PPE	2.7μmol/J
Ingress protection	ip66
Warranty	3 years
Operational Phase	Grow and Bloom phase
Suggested assemble height	< 2.0 m/6.56ft
Power	Non dimming
Lamp bead electric power ratio	Red(78.5%)+Blue(6%) + White(15.5%)
Maximum number of lamps connected	5pcs(200V); 10pcs (400V)
Installation mode	Hook, hang
Carton Dimensions	L2060 X W60 X H117mm



Product Spectrum :



Key benefits:

- ★ High quality integrated heating system design design.
- ★ Famous brand led chips ,various light spectrum available for different needs.
- ★ Plug and Play installation, high PPF with less heat to help grow better.
- ★ IP66, design for commercial greenhouse, grow all year round round.

LED INTER-LIGHTING TUBO SERIES

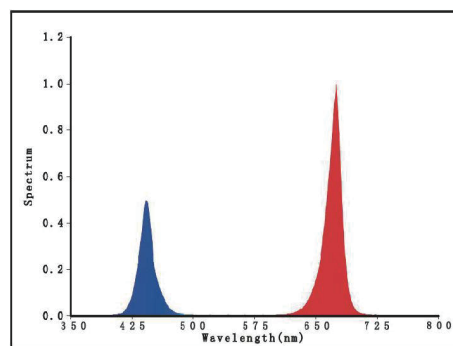


Model	ML-IXG10000
Frequency	50/60Hz
Input Voltage	200-400VAC
Power Consumption	100W
Power Factor	>0.9
Light output	310 μ mol/s
Efficiency	3.1 μ mol/j
Ingress protection	IP66
Rated Average Lifetime ²	36,000hrs
Warranty	3 years
Operational Phase	Grow and Bloom phase
Suggested assemble height	< 1.0M/3.28ft
Carton Dimensions	L2555×W225×H120mm

Key benefits:

- ★ High efficiency (3.1 μ mol/j)
- ★ High output for high intensity
- ★ Wieland quick plug
- ★ Adopt OSRAM LED Chip
- ★ CE/ETL/CSA/DLC Listed

Product Spectrum :



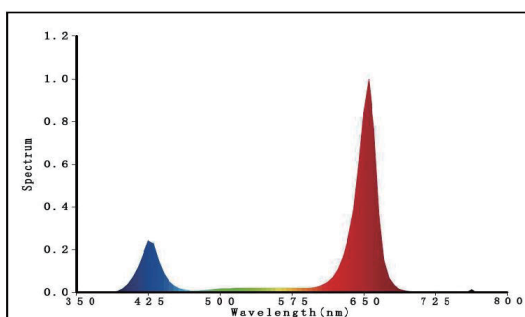
Height (cm/in)	LUX	PPFD (μ mol/m ² .s)
100/40"	260	32
80/32"	343	43
60/24"	430	55
50/20"	560	70
40/16"	688	90
30/12"	965	136
20/8"	1375	201

LED Tube Technical Parameters

Model	ML-CMS01802
Input Voltage	AC120-240V
Frequency Range	50/60Hz
Power Factor	>0.9
LED Model	SMD 2835*120pcs
Power	18±0.5W
Led Luminous Efficiency	120lm/W±10%
Light Design	Transparent PC
Working Temperature	-40 C ~ + 55 C
Store Temperature	-25 C ~ + 65 C
Beam Angle	120°
Working life-span	50000H
Dimensions(mm / in)	L1200*W32.5*H35mm



Product Spectrum :



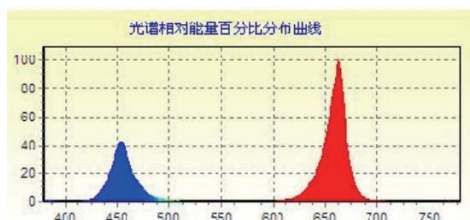
LED Multilayer Cultivation Lighting

-Star Series



Model	ML-MMS01800
Input voltage	100~240VAC 50/60Hz
Power consumption	18W
Power factor	>0.95
PPF	32µmol/s
Efficiency	1.8µmol/j
Ingress protection	IP50
Lifetime	Grow and Bloom phase
Operational Phase	50,000hrs
Suggested assemble height	< 0.8M/2.62ft
Dimensions(mm / in)	L1200×W32.5×H35mm

Product Spectrum :



Key benefits:

- ★ High robust quality aluminum housing, no additional cooling required.
- ★ 100-240V, high efficient built-in driver.
- ★ 120° beam angle for distribution.
- ★ Daisy chain connection.
- ★ With CE/RoHS certifications. Long life time: 50,000hrs .

LED Top lighting

-Sunshine C Series

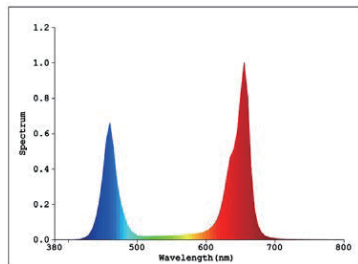


Model	ML-TCL13503
Input voltage	120~240VAC 50/60Hz
LED Power	300w
LED Quantity	60pcs
LED Brand	TAIWAN EPISTAR LED Chip
VEG Power consumption	90w±5%
BLOOM Power consumption	120w±5%
Power factor	> 0.95
PPF (VEG)	198µmol/s
PPF (BLOOM)	264µmol/s
Efficiency	2.2µmol/j
Ingress protection	IP20
Lifetime	50,000hrs
Operational Phase	Grow and Bloom phase
Suggested installation height	< 1.5m/59"
Suggested Daisy-chain Quantity	≤8pcs
Carton Dimensions	L320xW198xH75mm

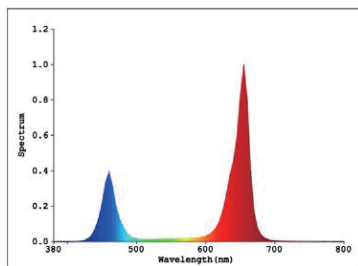
Key benefits:

- ★ Steel housing with white color, fan with heat sink as heat dissipation system.
- ★ VEG and Bloom spectrum design, special for plants Seedling, Grow and Bloom stages.
- ★ 100-240V, high efficiency built-in driver.
- ★ Comparing to traditional 250 watt HPS/MH.
- ★ Long lifespan:50,000hrs.

Product Spectrum :



VEG Spectrum



BLOOM Spectrum



Height (cm/in)	LUX (VEG)	PPFD (VEG) (µmol/m-2.s)	LUX(BLOOM)	PPFD (BLOOM) (µmol/m-2.s)
20/8"	16425	1526	>20000	2213
40/16"	7040	573	9860	806
60/24"	3875	313	5520	442
80/32"	2500	198	3540	283
100/40"	1700	133	2450	188
150/60"	800	63	1157	90

LED Top lighting

-Sunshine C Series

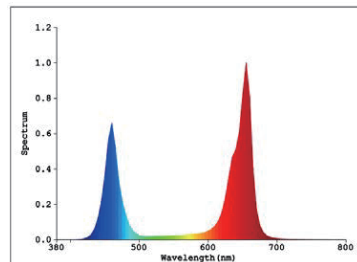


Model	ML-TCL27003
Input voltage	120~240VAC 50/60Hz
LED Power	600w
LED Quantity	120pcs
LED Brand	TAIWAN EPISTAR LED Chip
VEG Power consumption	180w±5%
BLOOM Power consumption	240w±5%
Power factor	>0.95
PPF (VEG)	396μmol/s
PPF (BLOOM)	528μmol/s
Efficiency	2.2μmol/j
Ingress protection	IP20
Lifetime	50,000hrs
Operational Phase	Grow and Bloom phase
Suggested installation height	< 1.5m/59"
Suggested Daisy-chain Quantity	≤4pcs
Carton Dimensions	L396×W325×H70mm

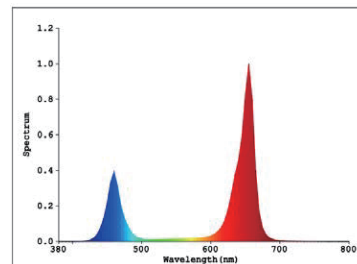
Key benefits:

- ★ Steel housing with white color, fan with heat sink as heat dissipation system.
- ★ VEG and Bloom spectrum design, special for plants Seedling, Grow and Bloom stages.
- ★ 100-240V, high efficiency built-in driver.
- ★ Comparing to traditional 600 watt HPS/MH.
- ★ Long lifespan:50,000hrs.

Product Spectrum :



VEG Spectrum



BLOOM Spectrum



Height (cm/in)	LUX (VEG)	PPFD (VEG) (μmol/m-2.s)	LUX(BLOOM)	PPFD (BLOOM) (μmol/m-2.s)
20/8"	16425	1526	>20000	2213
40/16"	7040	573	9860	806
60/24"	3875	313	5520	442
80/32"	2500	198	3540	283
100/40"	1700	133	2450	188
150/60"	800	63	1157	90

LED Top lighting

-SUNSHINE C SERIES

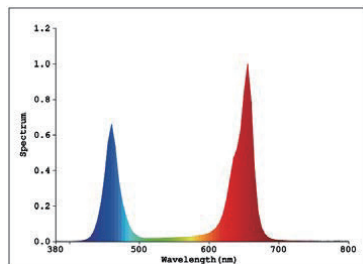


Model	ML-TCL24001
Frequency	50/60Hz
Input Voltage	120~240VAC
Power Consumption	600W
LED Quantity	120pcs
LED Brand	TAIWAN EPISTAR LED Chip
VEG Power consumption	180w±5%
BLOOM Power consumption	240w±5%
Power factor	>0.95
PPF (VEG)	396μmol/s
PPF (BLOOM)	528μmol/s
Efficiency	2.2μmol/j
Lifetime	50,000hrs
Operational Phase	Grow and Bloom phase
Suggested installation height	<1.5m/59"
Suggested Daisy-chain Quantity	≤4pcs
Carton Dimensions	L396×W320×H75mm

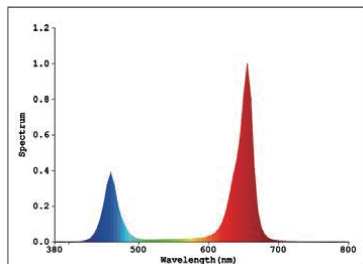
Key benefits:

- ★ Steel housing with white color, fan with heat sink as heat dissipation system.
- ★ VEG and Bloom spectrum design, special for plants Seedling, Grow and Bloom stages.
- ★ 100-240V, high efficiency built-in driver.
- ★ Comparing to traditional 600 watt HPS/MH.
- ★ Long lifespan:50,000hrs.

Product Spectrum :



VEG Spectrum



BLOOM Spectrum



Height (cm/in)	LUX (VEG)	PPFD (VEG) (μmol/m-2.s)	LUX(BLOOM)	PPFD (BLOOM) (μmol/m-2.s)
20/8"	>20000	1860	>20000	2598
40/16"	10900	888	15420	1226
60/24"	6250	483	8765	688
80/32"	4235	332	6050	473
100/40"	3165	242	4575	347
150/60"	1645	129	2395	185