

Product Catalog

Service Center

Phone:

012 288 9644
050 530 9783
0555 299 690

Mail:

AH.BAKRI@ILF.COM.SA
SALES@ILF.COM.SA

Address:

Jeddah 3rd Industrial city, Saudi Arabia

www.ilf.com.sa



We pay more attention to reliability than clients In order to increase plant production, our efforts are not restricted to theories

Verification method of efficiency

• Theory Evaluation

For the plant varieties and growth stage, the required light formula, supplemental lamp power, QE and light distribution are evaluated and calculated theoretically.

• Simulation Test

PPF, PPFD and uniformity were tested in the simulation test.

• Laboratory Data

Based on the cultivation data of the self-owned planting laboratories and the third-party cooperation laboratories, the light formula was optimized.

• Forefront cultivation effects (practical engineering case)

Based on the actual cultivation effect of clients of the terminal, the light formula was optimized.

Verification method of reliability

• Design method of reliability

Component selection, aging, screening and testing, thermal design, EMC design, product compliance design, circuit design, etc.

• Reliability Test

Environment adaptability test, EMC test, appearance test, life test, software test, etc.

• Strict quality control and management

Quality management system, staff training, equipment maintenance, etc.

CONTENTS

1. Venus Series P01-16

- V3 Series P03
- V4 Series P07
- V5 Series P11
- VS1-30W Series P15

2. Saturn Series P17-26

- S1 Series P19
- S2 Series P23

3. Jupiter Series P27-38

- J1 Series P29
- J2 Series P31
- J3 Series P33
- J4 Series P35
- JS1 Series P37

4. Leafy Series P39-48

- S3 Series(T08 & T16) P41
- S2H Series(T14 & T28) P43
- S1H Series(T14 & T28) P45
- S4 Series(T75) P47

5. Mushroom Series P49-52

Venus Series

The Lighting Solutions for Indoor Medical Plants



V3 Series

320W / 480W / 640W / 800W / 1000W / 1200W



Controller integrated
in the Driver (Optional)



Controller integrated
in the end of lamp holder (Optional)



Smooth alu. shell
Enough heat dissipation and Easily clean.



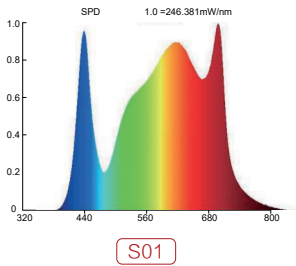
Samsung & Osram LED



Parameters

Model No.	V3-320W-4B-01	V3-480W-6B-01	V3-640W-6B-01	V3-800W-8B-01	V3-1000W-10B-01	V3-1200W-12B-01
Input Power	320W	480W	640W	800W	1000W	1200W
Input Voltage	100-277VAC or 277VAC-480VAC.					
Spectrum	S01			S01		
Input Frequency	50-60Hz					
Power Factor	>0.9					
Dimensions(W*L*H)/mm	520*686*98	898*1060*98	1062*1060*98	1062*1060*98	1460*1061*98	1800*1060*98
Mounting Height	Over 15cm Above Canopy					
Thermal Management	Passive					
Dimming	0-10V(0%-100%)					
Waterproof & Dustproof	IP65 for LED protection and Driver					
Applications	Fully Indoor farm					
Light Distribution	120°					
External Control	Universal Controller 0-10V(Group control:No limited Qty.					
Control Way	Controller integrated in the Driver or Controller integrated in the end of lamp holder					
Warranty	5 Years Warranty					
Certifications	CE,ROHS,EMC,LVD					
Working Temperature	0℃-40℃					
Storage Temperature	-20℃-70℃					

Distribution Diagram



Accessories

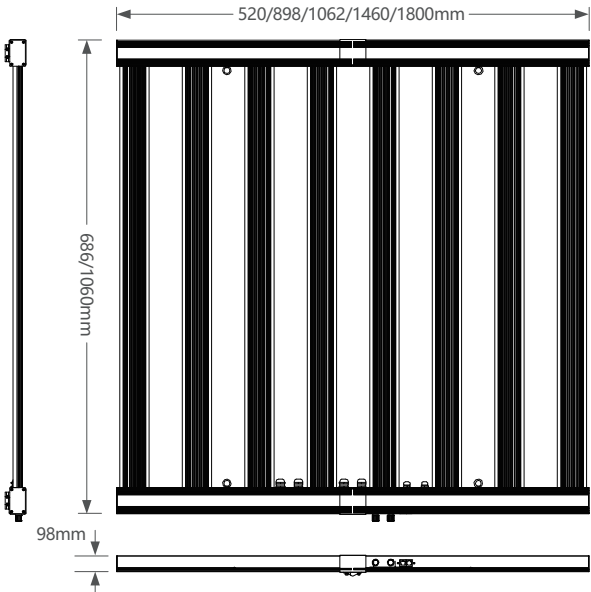


- 1PCS Power cord
- 1PCS Network cable
- 2PCS Ropes
- 2PCS Adjustable height ropes

Reference PPFD (umol/m²/s)

Power	Coverage area	Height			
		30cm	45cm	60cm	90cm
320W	1.2*0.6m	841	643	498	312
480W	1.2*1.2m	651	589	504	368
640W	1.2*1.2m	1152	928	762	524
800W	1.2*1.2m	1634	1289	1037	701
1000W	1.2*1.5m	1557	1324	1162	790

Dimension



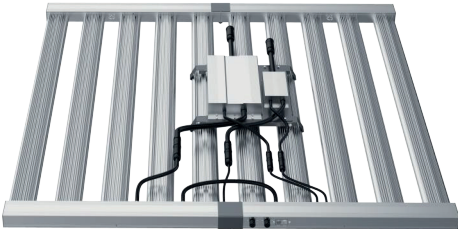


V4 Series

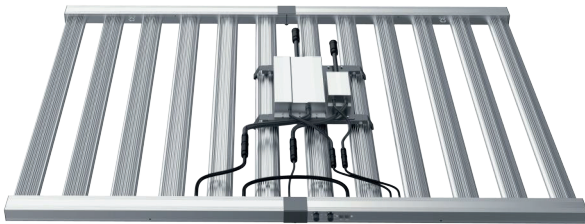
800W / 1000W / 1200W



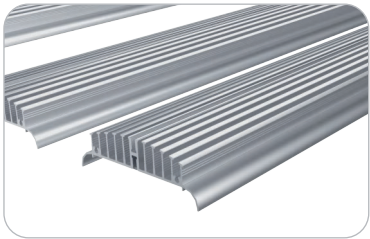
800W



1000W



1200W



Unique heat design



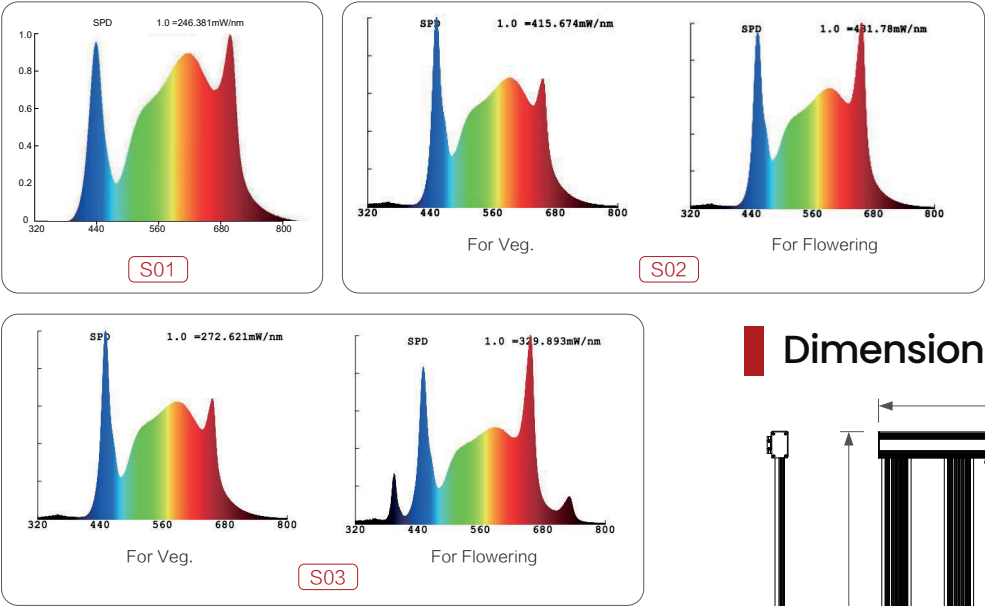
Samsung & Osram LED



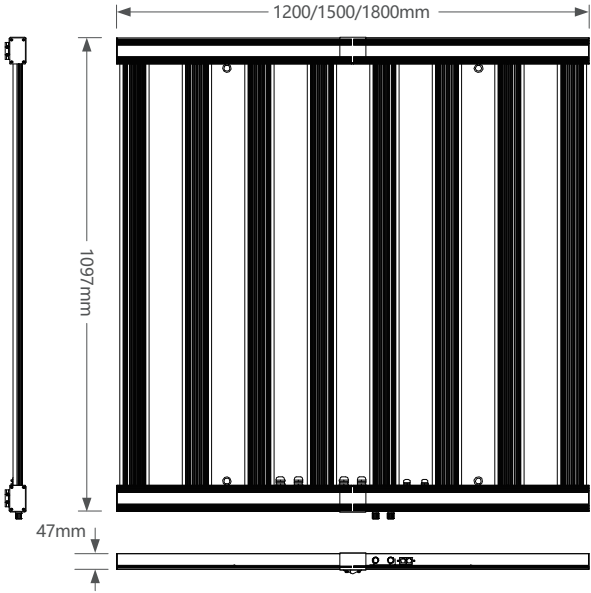
Parameters

Model No.	V4-800W-8B-01	V4-1000W-10B-01	V4-1200W-12B-01	V4-800W-8B-02	V4-1000W-10B-02	V4-1200W-12B-02
Input Power	800W	1000W	1200W	800W	1000W	1200W
Input Voltage	100-277VAC or 277VAC-480VAC.					
Spectrum	S01			S02 Or S03		
Input Frequency	50-60Hz					
Power Factor	>0.9					
Dimensions(W*L*H)/mm	1200*1097*47	1500*1097*47	1800*1097*47	1200*1097*47	1500*1097*47	1800*1097*47
Mounting Height	Over 15cm Above Canopy					
Thermal Management	Passive					
Dimming	0-10V(0%-100%)					
Waterproof & Dustproof	IP65 for LED protection and Driver					
Applications	Fully Indoor farm					
Light Distribution	120°					
External Control	Universal Controller 0-10V(Groupcontrol:No limited Qty)					
Warranty	5 Years Warranty					
Certifications	CE,ROHS,EMC,LVD					
Working Temperature	0℃-40℃					
Storage Temperature	-20℃-70℃					

Distribution Diagram



Dimension



Accessories



- 1PCS Power cord
- 1PCS Network cable
- 2PCS Ropes
- 2PCS Adjustable height ropes

Reference PPFD (umol/m²/s)

Power	Coverage area	Height			
		30cm	45cm	60cm	90cm
800W	1.2*1.2m	1634	1289	1037	701
1000W	1.2*1.5m	1557	1324	1162	790



V5 Series

720W / 1000W / 1600W



Controller integrated
in the Driver (Optional)



Controller integrated
in the end of lamp holder (Optional)



Unique heat design



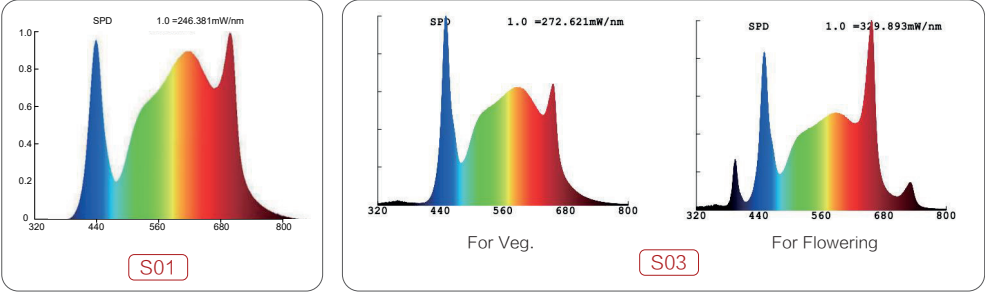
SANAN LED



Parameters

Model No.	V5-720W-6B-01	V5-1000W-10B-01	V5-1600W-15B-01	V5-720W-6B-01	V5-1000W-10B-01	V5-1600W-15B-01
Input Power	720W	1000W	1600W	720W	1000W	1600W
Input Voltage	100-277VAC or 277VAC-480VAC.					
Spectrum	S01			S03		
Input Frequency	50-60Hz					
Power Factor	>0.9					
Dimensions(W*L*H)/mm	1120*1060*47	1460*1060*47	2400*1060*47	1120*1060*47	1460*1060*47	2400*1060*47
Mounting Height	Over 15cm Above Canopy					
Thermal Management	Passive					
Dimming	0-10V(0%-100%)					
Waterproof & Dustproof	IP65 for LED protection and Driver					
Applications	Fully Indoor farm					
Light Distribution	120°					
External Control	Universal Controller 0-10V(Group control:No limited Qty.					
Control Way	Controller integrated in the Driver or Controller integrated in the end of lamp holder					
Warranty	3 Years Warranty					
Certifications	CE,ROHS,EMC,LVD					
Working Temperature	0℃-40℃					
Storage Temperature	-20℃-70℃					

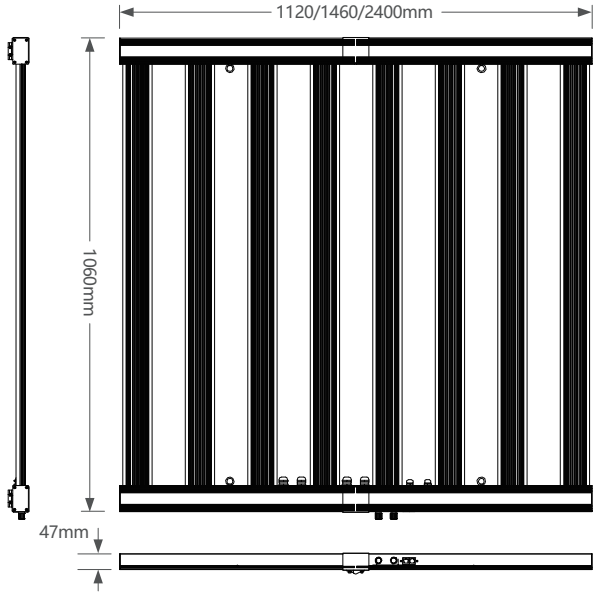
Distribution Diagram



Accessories



Dimension

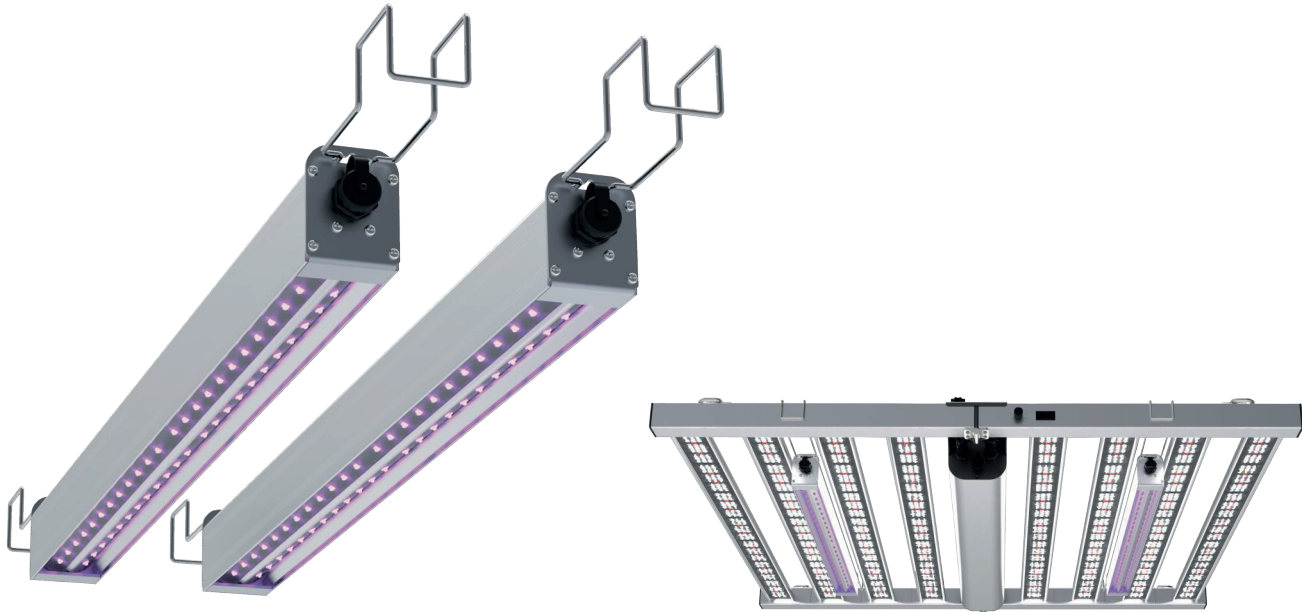


Reference PPFD (umol/m²/s)

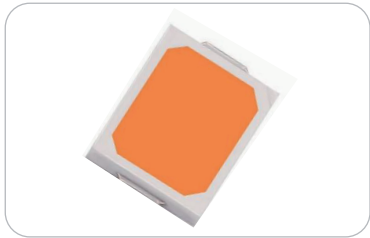
Power	Coverage area	Height			
		30cm	45cm	60cm	90cm
720W	1.2*1.2m	1284	1145	924	636
1000W	1.2*1.5m	1392	1206	928	718

VS1 Series

30W



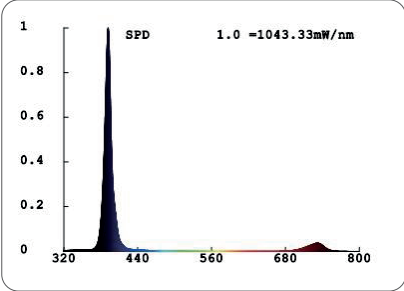
Unique heat design



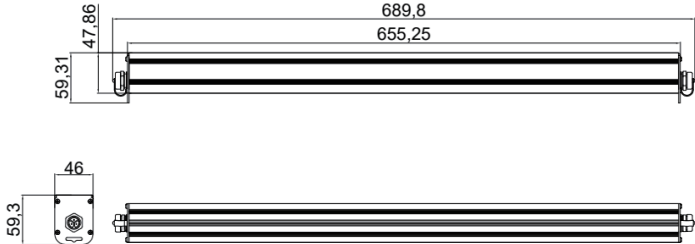
SEOUL SEMICONDUCTOR



Distribution Diagram



Dimension



Parameters

Series Name	Venus-VS1 Series
Model No.	VS1-30W
Input Power	30W ± 5%
Input Voltage	100-277VAC
Coverage Area	1.2*0.6M
Input Frequency	50-60Hz
Power Factor	>0.9
Fixture Dimensions	689.8*59.3*46mm
LED	UVA 395nm and Far red 730nm
Driver	Integrated
Thermal Management	Passive
Dimming	NO
IP Rating	IP65
Light Distribution	140°
Lifetime	L90>8500HRS
Warranty	1 Year
Daisy-Chain Capability	110Vac: 24PCS max /240Vac: 52PCS

Saturn Series

The Lighting Solutions for Family Growers



S1 Series

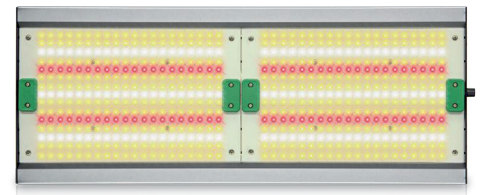
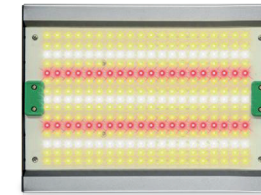
120W / 240W



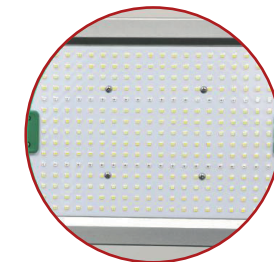
120W



240W



Smooth Aluminum
6063 Heatsink



Waterproof Cover



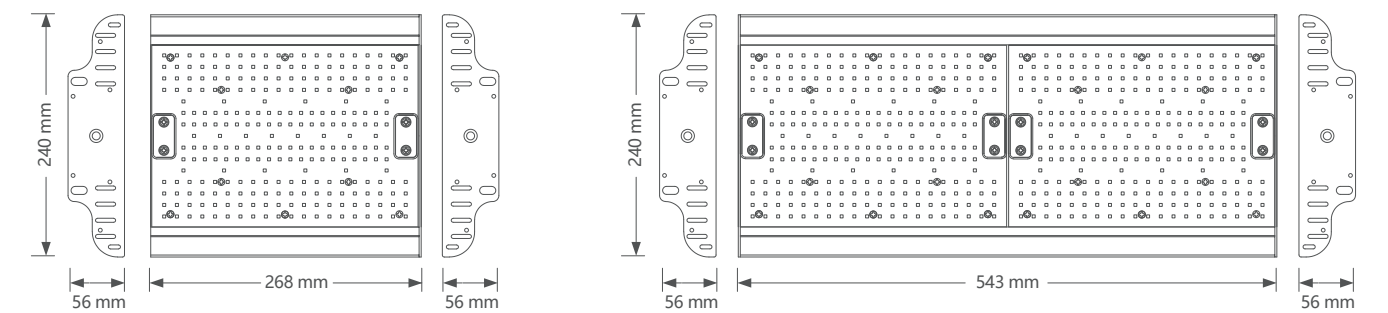
Samsung LED



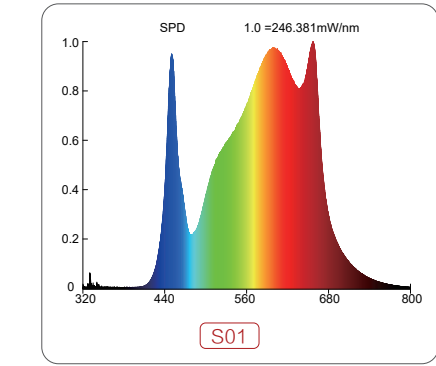
Parameters

Series Name	Saturn series S1	
Model No.	S1-120W	S1-240W
Input Power	120W	240W
Input Voltage	100-277VAC	
System Efficiency (400-700nm)	>2.8umol/j	
Input Frequency	50-60Hz	
Power Factor	>0.9	
Dimensions(L*W*H)	300*240*56mm	596*240*56mm
Mounting Height	Over 15cm Above Canopy	
Thermal Management	Passive	
Dimming	0-10V	
IP Rating	IP65 for LED protection and Driver	
Light Distribution	110°	
Warranty	5 Years warranty	

Dimension



Distribution Diagram



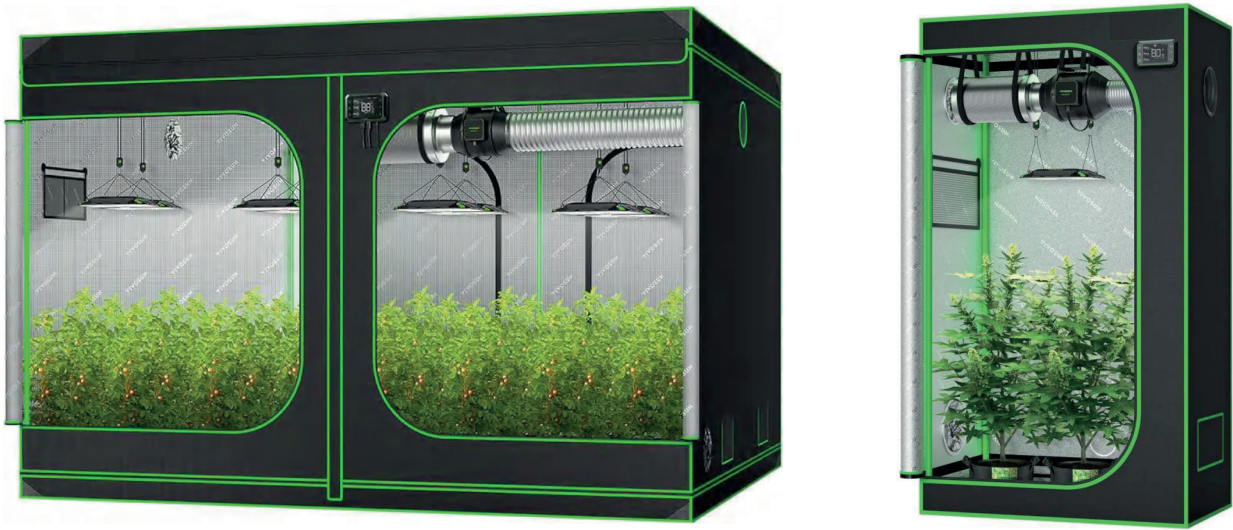
Accessories



- 1PCS 2M Power cord
- 2PCS Ropes
- 1PCS Adjustable height ropes

Reference PPFD (umol/m²/s)

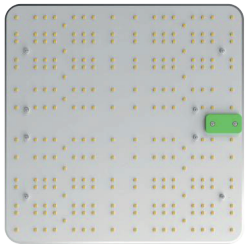
Power	Coverage area	Height	
		30cm	45cm
120W	0.3*0.3m	728	445
240W	0.3*0.6m	1258	720



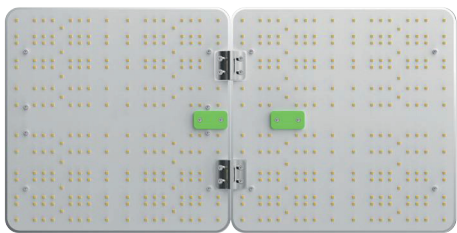


S2 Series

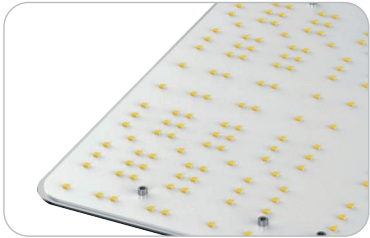
120W / 240W



120W



240W



Waterproof cover



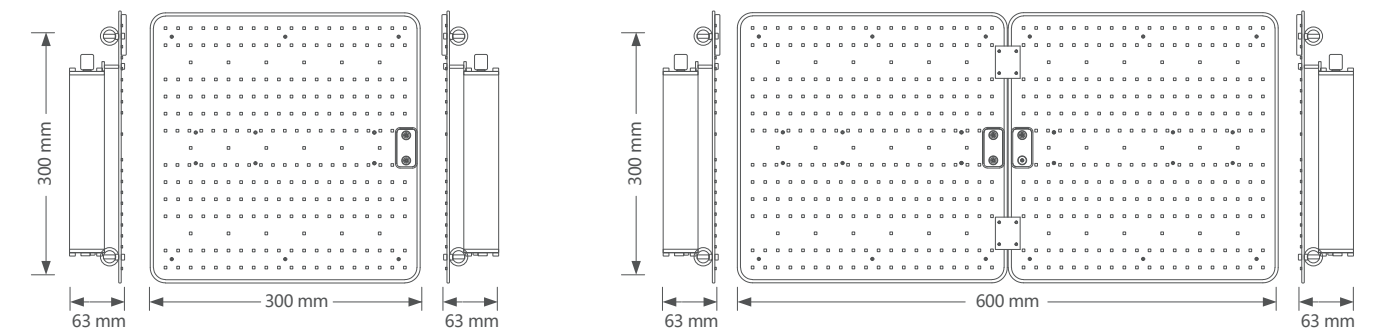
SANAN LED



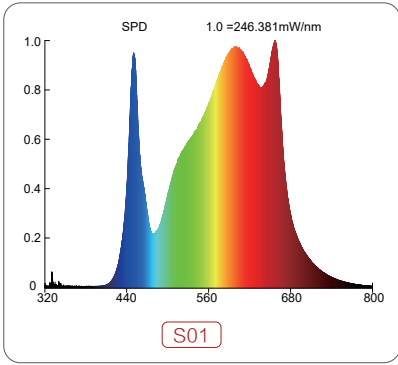
Parameters

Series Name	Saturn series S2	
Model No.	S2-120W	S2-240W
Input Power	120W	240W
Input Voltage	100-277VAC	
System Efficiency (400-700nm)	>2.3 umol/j	
Input Frequency	50-60Hz	
Power Factor	>0.9	
Dimensions(L*W*H)	300*240*56mm	596*240*56mm
Mounting Height	Over 15cm Above Canopy	
Thermal Management	Passive	
Dimming	0-10V	
IP Rating	IP65 for LED protection and Driver	
Light Distribution	110°	
Warranty	5 Years warranty	

Dimension



Distribution Diagram



Accessories



- 1PCS 2M Power cord
- 2PCS Ropes
- 1PCS Adjustable height ropes

Reference PPFD (umol/m²/s)

Power	Coverage area	Height	
		30cm	45cm
120W	0.3*0.3m	662	403
240W	0.3*0.6m	1143	654



Jupiter Series

The Lighting Solutions for Greenhouse



J1 Series

100W



Smooth alu. shell



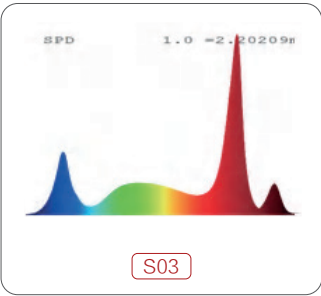
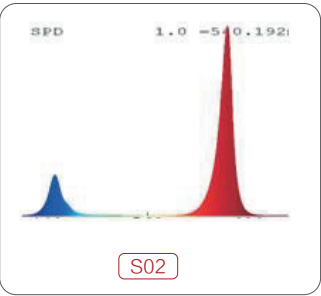
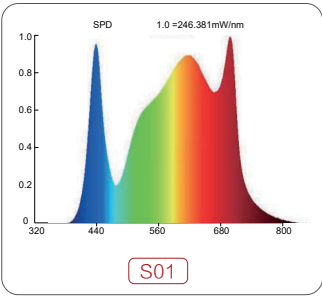
Samsung & Osram LED



Parameters

Model No.	Input Power	Voltage	PF	System Efficiency (400-700nm)	Dimming	Dimension	IP Rating	Warranty
J1-100W	100W	AC100-277V	>0.9	2.8-3.3umol/j	0-10V	980x64x24mm	IP65	5 years

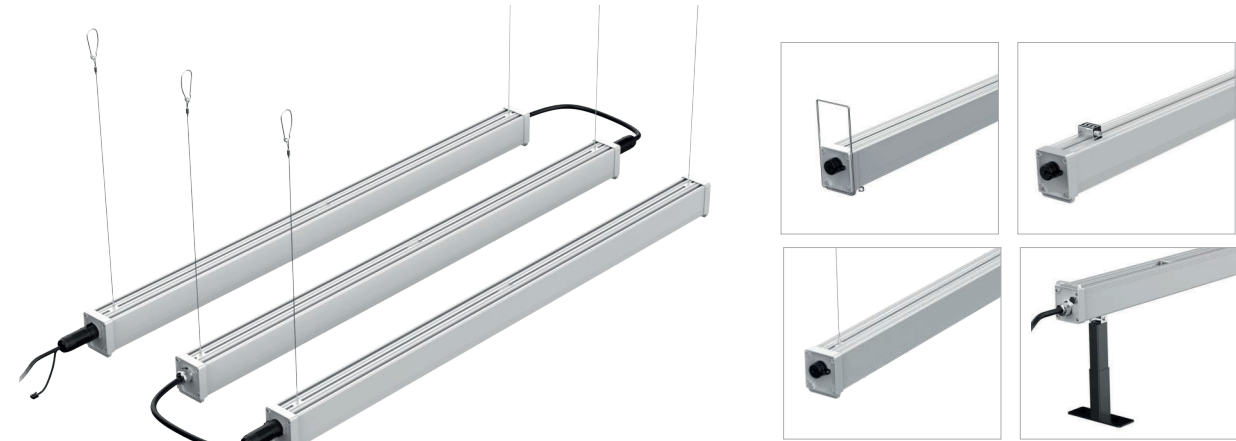
Distribution Diagram





J2 Series

200W



Flexible 4 Installation Ways

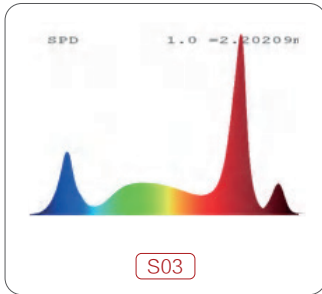
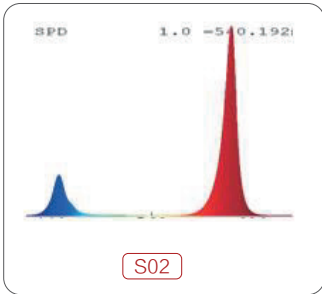
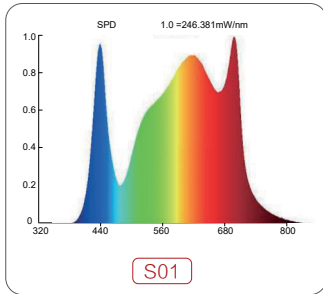


Samsung & Osram LED

Parameters

Model No.	Input Power	Voltage	PF	System Efficiency (400-700nm)	Dimming	Dimension	IP Rating	Warranty
J2-200W	200W	AC100-277V	>0.9	2.8-3.3umol/j	0-10V	1204*61.9*75.9mm	IP66	5 years

Distribution Diagram





J3 Series

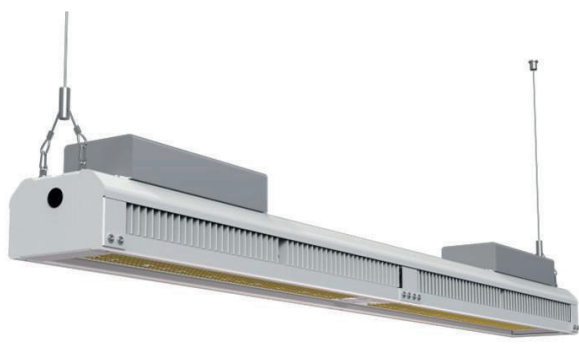
300W / 600W



300W



Good heat sink



600W

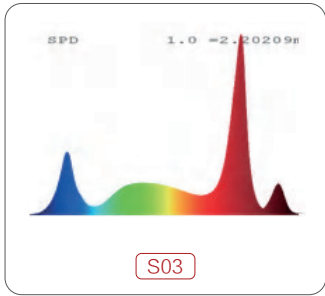
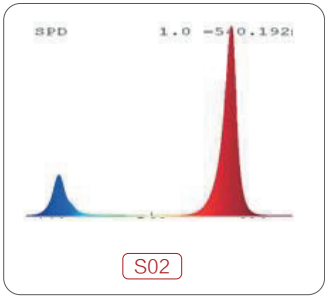
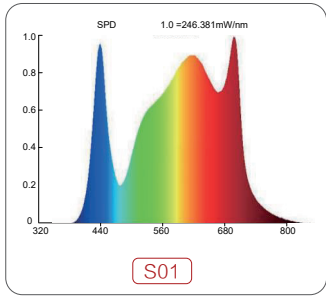


Samsung & Osram LED

Parameters

Model No.	Input Power	Voltage	PF	System Efficiency (400-700nm)	Dimming	Dimension	IP Rating	Warranty
J3-300W	300W	AC100-277V	>0.9	2.8-3.3umol/j	0-10V	583*124*120mm	IP65	5 years
J3-600W	600W	AC100-277V	>0.9	2.8-3.3umol/j	0-10V	1160*124*120mm	IP65	5 years

Distribution Diagram



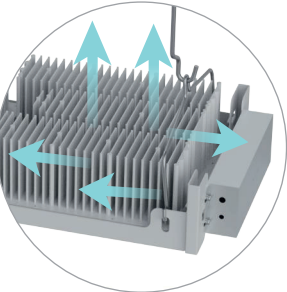


J4 Series

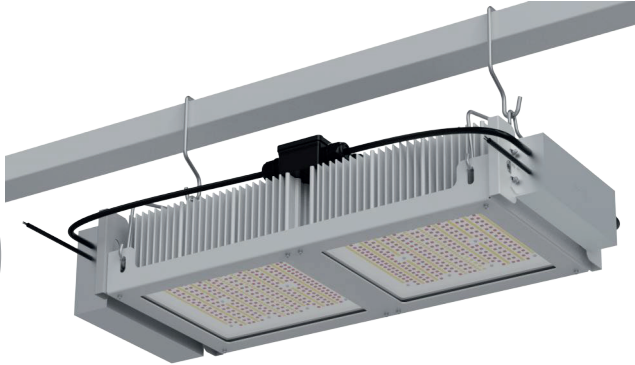
400W / 900W



400W



Good heat sink



900W

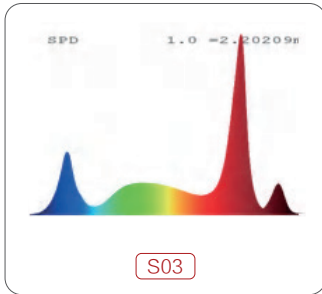
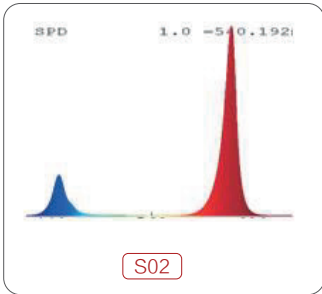
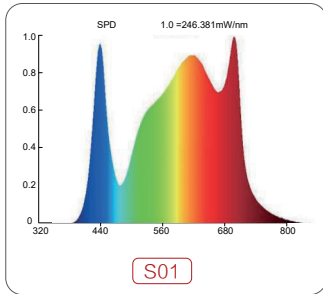


Samsung & Osram LED

Parameters

Model No.	Input Power	Voltage	PF	System Efficiency (400-700nm)	Dimming	Dimension	IP Rating	Warranty	Remark
J4-400W	400W	AC100-277V	>0.9	2.8-3.3umol/j	0-10V	292*265*200mm	IP65	5 years	400W White+Red
J4-900W	900W	AC100-277V	>0.9	2.8-3.3umol/j	0-10V	578*265*109mm	IP65	5 years	800W White+Red 100W Far Red

Distribution Diagram





JS1 Series

60W / 120W



60W



120W

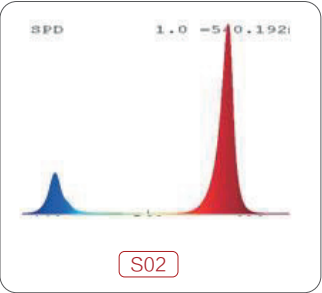
Parameters



Samsung & Osram LED

Model No.	Input Power	Voltage	PF	System Efficiency (400-700nm)	Dimming	Dimension	IP Rating	Warranty	Lifetime
JS1-60W	60W	AC100-277V/ AC277V-480V	>0.9	>2.8umol/j	0-10V	Φ54*1140mm	IP66	5 years	Q90 ≥36,000 hours
JS1-120W	120W	AC100-277V/ AC277V-480V	>0.9	>2.8umol/j	0-10V	Φ54*2260mm	IP66	5 years	Q90 ≥36,000 hours

Distribution Diagram



Leafy Series

The Lighting Solutions for Indoor Farm

S3-T Series

8W & 16W

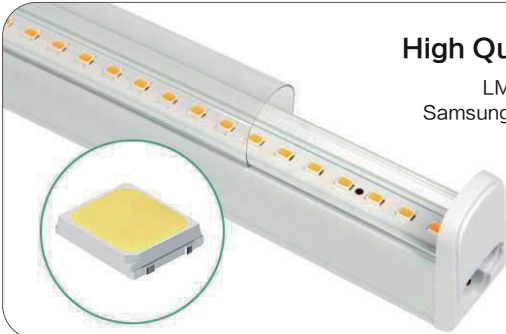
Features

- Multiple spectrums are available, and each spectrum has proven to be effective
- Multiple installation methods
- High-quality internal power supply
- The installation surface is flat, easy to install and secure in place



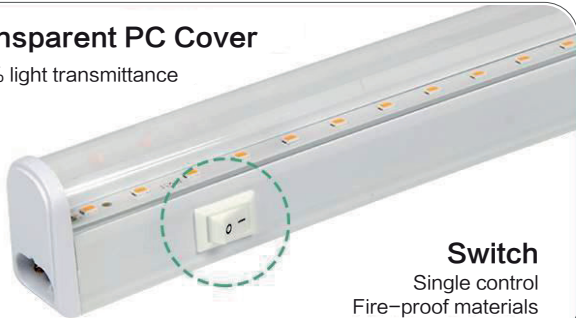
High Quality LED

LM80 test report
Samsung, Cree, Sanan



Transparent PC Cover

>95% light transmittance



Switch

Single control
Fire-proof materials

Parameters

Model No.	Input Power	Voltage	PF	System Efficiency (400-700nm)	Dimension	Max.Connectable Qty
S3-T08	8W	AC170-265V 50/60Hz	≥0.5	1.1- 1.4 umol/j	L572*22*33.5mm	40PCS @ 220VAC
S3-T16	16W	AC170-265V 50/60Hz	≥0.5	1.1 - 1.4 umol/j	L1172*22*33.5mm	20PCS @ 220VAC



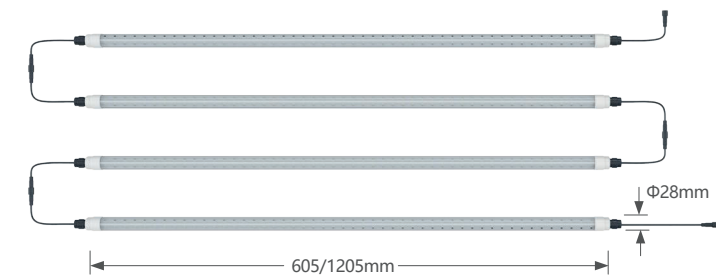
S2H-T Series

14W & 28W



Features

- Multiple spectrums are available, and each spectrum has proven to be effective
- V-shaped emitting surface, providing uniform and balanced plant growth
- IP66 waterproof, moisture-proof, and dust-proof
- Multiple installation methods are available
- High-quality external power supply, connected to an external controller, to achieve dimming, timing, and spectrum modulation.
- The product is equipped with a respirator, providing an additional layer of protection
- The installation surface is flat, making it easy to install and secure in place



Parameters

Model No.	Input Power	Voltage	PF	System Efficiency (400-700nm)	Dimming	Dimension	Max.Connectable Qty
S2H-T14	14W	AC170-265V 50/60Hz	≥0.9	1.9-2.6umol/j	0-10V	L605*Φ28mm	40PCS @ 220VAC
S2H-T28	28W	AC170-265V 50/60Hz	≥0.9	1.9-2.6umol/j	0-10V	L1205*Φ28mm	20PCS @ 220VAC



S1H-T Series

14W & 28W

High quality LED
LM80 test report
Philips LED

>95% Light transmittance

High quality driver inside
PF>0.9, No flickering

With respirator: eliminate internal moisture, and better heat dissipation to extend the life of fixture

Features

- Multiple spectrums are available, and each spectrum has proven to be effective
- V-shaped emitting surface, providing uniform and balanced plant growth
- IP66 waterproof, moisture-proof, and dust-proof
- Multiple installation methods are available
- High-quality internal power supply
- The product is equipped with a respirator, providing an additional layer of protection
- The installation surface is flat, making it easy to install and secure in place

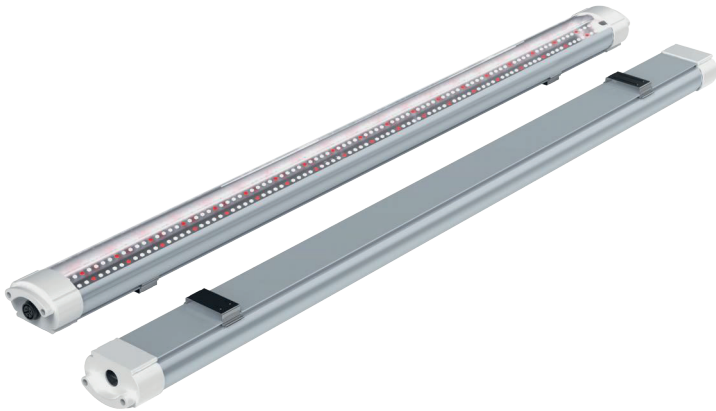
Parameters

Model No.	Input Power	Voltage	PF	System Efficiency (400-700nm)	Dimming	Dimension	Max.Connectable Qty
S1H-T14	14W	AC170-265V 50/60Hz	≥0.9	1.9-2.1umol/j	0-10V	L605*Φ28mm	40PCS @ 220VAC
S1H-T28	28W	AC170-265V 50/60Hz	≥0.9	1.9-2.1umol/j	0-10V	L1205*Φ28mm	20PCS @ 220VAC



S4-T Series

75W



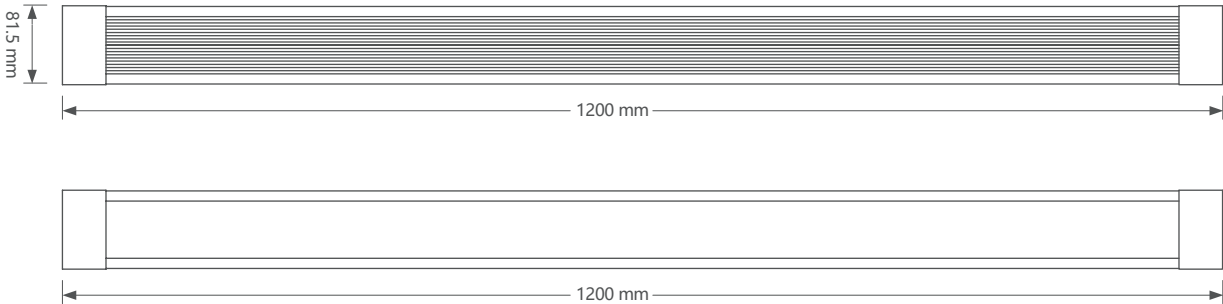
Features

- Multiple spectrums are available, and each spectrum has proven to be effective
- High PPFD to meet plant growth needs
- IP66 waterproof, moisture-proof, and dust-proof
- High-quality internal power supply
- The installation surface is flat, easy to install and secure in place

Parameters

Model No.	Input Power	Voltage	PF	System Efficiency (400-700nm)	Dimming	Dimension	Max.Connectable Qty
S4-T75	75W	AC170-265V 50/60Hz	≥0.9	2.3-2.8umol/j	NO	L1200*81.5mm	40PCS @ 220VAC

Dimension



Mushroom series

The Lighting Solutions for Mushroom



M Series

7W/9W



Features

- IP67 Waterproof and dustproof
- Arc-shaped luminous surface, wide range illumination
- Up to 50 meters can be connected
- High efficiency, power saving
- Blue light/white light / blue + white switch freely



Parameters

Model No.	Input Power	Voltage	PF	System Efficiency (400-700nm)	Color	Dimension	IP Rating	Warranty
M-1.2M-7W-W	7.2W	DC 48V	>0.9	2.1 umol/j	Cool white	1175*Φ12mm	IP67	3 years
M-1.5M-9W-W	9W	DC 48V	>0.9	2.1 umol/j	Cool white	1475*Φ12mm	IP67	3 years
M-1.2M-7W-B	7.2W	DC 48V	>0.9	1.9 umol/j	Blue	1175*Φ12mm	IP67	3 years
M-1.5M-9W-B	9W	DC 48V	>0.9	1.9 umol/j	Blue	1475*Φ12mm	IP67	3 years
M-1.2M-7W-BW	7.2W	DC 48V	>0.9	2.1 umol/j	Cool white+Blue	1175*Φ12mm	IP67	3 years
M-1.5M-9W-BW	9W	DC 48V	>0.9	2.1 umol/j	Cool white+Blue	1475*Φ12mm	IP67	3 years

Dimension

