

Product Name: LED Grow Light (IP64)

Specification: L1200 x Φ 26.5mm

Item No.: KES-GL-003

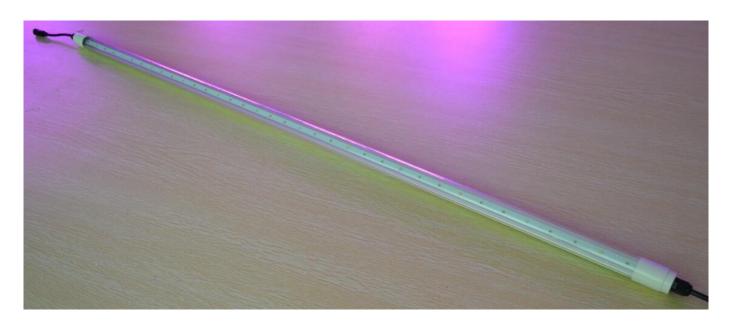


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I. Product

Product photo



a) Product Definition

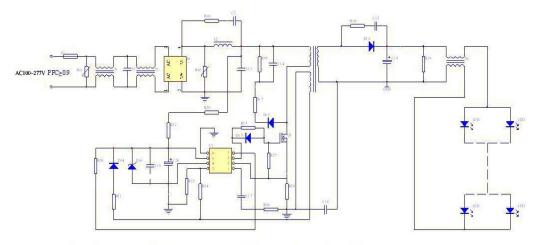
LED grow light belongs to new generation grow and assistant grow light for plants. The big difference compared with traditional grow light, whether it is HPS or fluorescent or other kinds, that is LED grow light can provide plants special requirement for different light wavelength and light intensity in their different grow phases to maximize the satisfaction for plant light necessity

II. Product features

- . 3W high power LEDs
- . The lamp can be series connected and centralized turn on/off
- . Water-proof design, suitable for using in some special growing area

III. Product Properties

a) Product working circuit schematic diagram



Attention: This diagram is for reference only, We have the right for the designing changes at any time in case we deem it necessary and will not be notified by our company!

b) Product basic working technical data (30CM distance measurement data)

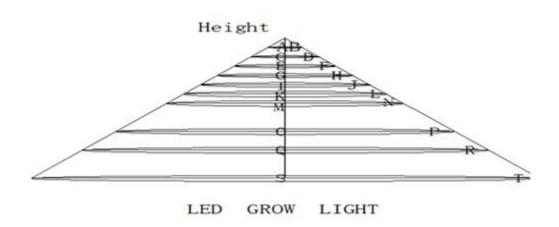
Power	Input Voltage	Working Frequency	LEDs	
26W	AC100~277V	50/60Hz	High Power 3W 3535 LEDs (We use 3W LEDs as 1W)	
PF	Main Wave length	Ech-A(W/m²)	Ech-B(W/m²)	Color Ratio
≥0.9	380-780nm	5.3775	3.1694	R/B/W: 4:1:1
Ee (W/m²)	PPFD (Eq)	Life-Span	Warranty	
(400-700nm) 12.021	59.526	50,000 H	3 years	

c) Product illumination Graphic & testing data

PPFD graph

Height

Illumination graph



0.1m	Α	2134lx	В	371.1 lx
0.2m	С	1482lx	D	216.3 lx
0.3m	E	962 lx	F	145.5 lx
0.4m	G	819.3 lx	Н	108.9 lx
0.5m	I	687.3 lx	J	76.7 lx
0.6m	K	470.4 lx	L	70.2 lx
0.7m	M	401.1 lx	N	51.5 lx
1.0m	0	239.7 lx	Р	26.2 lx
1.2m	Q	185.2lx	R	21.2 lx
10.5m	S	130.3 lx	Т	18.1lx



d) Product photoelectrical testing data (Testing Distance:30CM)

Photoelectrical testing data by voltage setting 220V

PLASuite Test Report

1/1

Spectrum Test Report

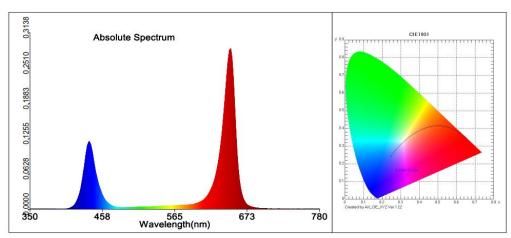
Sample Info.:

Name:Plant Growth Lamp Type:GL SN:KES-GL-003 Manu:KEISUE Date:2018-08-09 Tester:CX YU **TMP:25.3 DEG** Humidity:65 %RH

Remark:4:1:1/Testing Distance 30CM

Meter state:

Test Meter: PLA-20 Sensitivity: High Integral T: 157 ms PeakAD lp: 40137.4 Average times: 1



Test parameter:

E= 962.0 lx	E(fc)=89.4013 fc		
CIE x= 0.3341 Tc=100000 K Pur=58.3 % Duv=-0.16377	CIE y= 0.1391 Lp=662.0 nm Ratio_R=57.5 %	CIE u'=0.3340 HW=20.7 nm Ratio_G=33.9 %	CIE v'=0.3128 Ld=610.2 nm Ratio_B=8.6 %
Ra=-85.2	R1=-141	R2=-58	R3= 40
R4=-108	R5=-120	R6=-25	R7= 2
R8=-272	R9=-803	R10=-211	R11=-127
R12=-67	R13=-136	R14= 46	R15=-285

SDCM=99.5(F5000) White Class: OUT

E1(400-700nm)=12.021 W/m2 Ech-A=5.3775 W/m² Eb=3.3357 W/m² Ep=10.578 Wphyto/m² PPFDf=3.8771E-001 µmol/(m²·s) PPFD=59.526 µmol/(m²·s)

E2(380-780nm)=12.094 W/m2 Ech-B=3.1694 W/m2 Ey=0.57774 W/m² Erb_Ratio=2.431

Ef=0.063943 W/m² Er=8.109 W/m²

V. Product Main Material

e) LED Driver

Wide voltage design, AC100V - 277V, 50/60Hz, meets all countries input voltage requirement Isolating power supply design, ensures safety in usage

f) LEDs

Using Epileds chips, self-encapsulated LEDs

g) Heat Dissipation

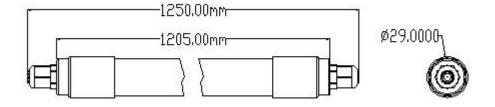
Adopting high heat conductive materials: AL6063

h) Water-proof

Waterproof seal grade: IP66

IV. Product Size & Package

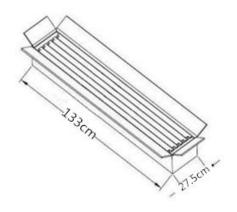
a) Product size illustration



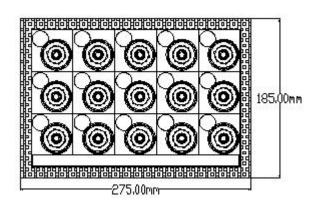
b) Product packing info

Product P/N	Product N.W	Carton Size	GW.	Qty/ Carton
KES-GL-003	560g	133*27.5*18.5cm	10.5kg	15 pieces

c) Product packing illustration



Production carton 15pcs/carton



Sectional View

d) Carton label

Model: KES-GL-003

Dimension: 133*27.5*18.5cm

Quantity: 15 pcs

G.W: 10.5 KG

Carton No.: of







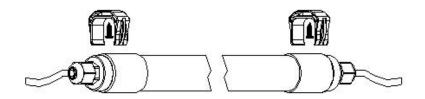


V. Product Installation Illustration

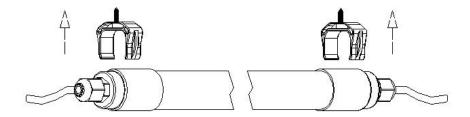
1. There are two kinds of installation.

First installation

1). Fix the lamp holders on the top shelf with tapping screw .

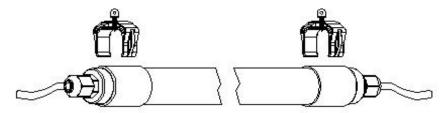


2). Install the lamp in the lamp holders, then plug in the power plug.

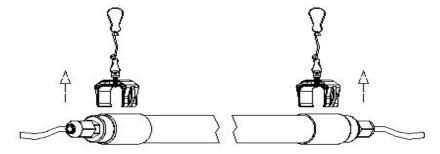


Second installation

1). Fix the customized screw with pliers on the lamp holders



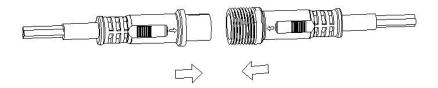
2). Connection the customized screw with hook, connection the other end of hook on the top shelf, then install the lamp into the holder, plug in the power plug.



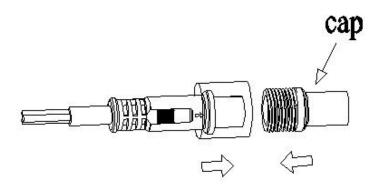
2. There is a connector at the end of LED Grow Light, two lamps can link together.

In the case of 110V, 15 pieces lamp can link together,

In the case of 220V, 20 pieces lamp can link together.



3. There is a cap can be used to plug up the last linked lamp's female to prevent accidents.



VI. QA & Safety Standard

a) Quality control per ISO9001 -2008 Standard

Product quality control

- . Finish product QC inspection standard: MIL-STD-105E C=0
- . Production processing QC standard: GB 2829—87 Periodical checking and sampling procedures
- . QC confirm every production step and keep record

Raw material & Components quality control



. Driver: Per MIL-STD-105E C=O

. LEDs : Per MIL-STD-105E C=O

Heat dissipation: Per MIL-STD-105E C=O

b) Quality Controlling Items

Switching Test: Switch on/off for30 times per second within 30 minutes.

Reliability Tests:

	Conditions
High Temperature Operation Test	Ta=50°C, 240hrs
Low Temperature Operation Test	Ta=-20℃, 240hrs
High Temperature Storage Test	Ta=70℃, 240hrs
Low Temperature Storage Test	Ta=-30°C, 240hrs
High Temperature and High Humidity Test	Ta=40℃, 95%RH, 240hrs

Aging Test: Default two days or Per customer requirement

Voltage	Testing Condition	Duration Time
110V	Room Temperature	48 H
220V	Room Temperature	48 H

- ➤ Safety Test: Leakage current test, Grounding test
- PPFD Test

c) Product Safety Certificates

d) Product Warranty Statement

LED light life span is usually about 50,000 hours, Base on following terms, Keisue warrants Keisue LED lamps to be free from defects in material and workmanship and to operate from the date of manufacture for the time period of 3 years.

Terms and Conditions:

This warranty will not apply in the event of conditions demonstrating abnormal use or stress, such as operating temperatures in excess of maximum rated temperatures, under/over voltage conditions, excessive switching cycles or operating hours, dirty or broken sockets, or improper lamp installation. Replacement of LED driver board provided by Keisue with any other product will void entire warranty.

The user shall promptly return the product at the user's expense to Keisue after receiving instructions as if, when and where to ship product. Failure to follow this procedure shall void this warranty.

VII. Product Usage Attention Items

- . Please cut off the power before installation and maintenance.
- . LED product is much more durable for collision, knocking, but do not do it for longer life.
- . Plug in and the light is on working, do not intentionally connect the light to other electronic components, such as, ballast, transformer, etc.
- . Indoor use, forbid to expose to the out-door or get wet.