



led grow tubes 【T8 plant light】 - NO: T37- 9405500000PG01
SPECIFICATION FOR APPROVALFOR APPROVAL

PGT8H*A2P5G7**



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ADD:No. 39, Wanjiang Section, Guansui Road, Wanjiang Street.Dong guanCity,GuangdongDong.China

Features:

Light source type: SMD LED
 Luminous color: full spectrum
 Lamp diameter: Ø26mm
 Lamp body color: white
 Chip material: GaInN/GaN
 Power: 9W-65W
 Voltage: 85V-180V/160-265V/50-60Hz
 Color λ_d (nm): 6000K/3000K/red/blue 5:1/ 5:2/ 3:1/ 1:1
 Light efficiency: 100LM/W
 Protection level: IP65-IP68
 Lighting angle: 120°
 Power factor: ≥ 0.9
 PPFD value: 5-8umol/J
 Material: PC + (optical grade) acrylic
 Lifespan: >50000H



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Descriptions:

T8 LED grow light is an efficient plant light source specially designed for plant growth. It uses LED light source with long life and low energy consumption. This kind of planting tube can provide plants with the light they need to promote their growth and development.

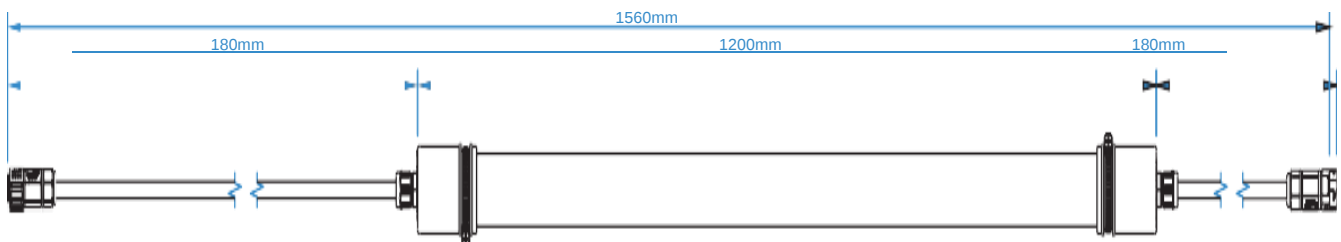
Specifications: Common specifications are 2 feet, 4 feet and 8 feet.

φ26MM*600MM, excluding waterproof joint length 588
 φ26MM*900MM, excluding waterproof joint length 895
 φ26MM*1200MM, excluding waterproof joint length 1198
 φ26MM*1500MM, excluding waterproof joint length 1498

Applications:

gardening
 farm
 plant cultivation
 Greenhouse cultivation
 Horticulture Research
 Indoor cultivation, greenhouse, flower cultivation, vegetable cultivation and other fields.

Package Dimension:



Accessories

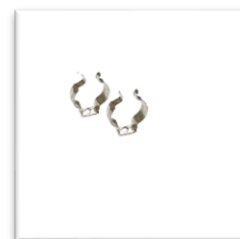
Queendom Connection Cable 180mm



Connect the dropped rope



Clamp bracket



Product Selection Guide
Model & Dimensions

Table 1. Product performance of QUEENDOM T8 plant lamp, VF=220V, Tj=25°C, detection height 50CM.

PRODUCT	RANK NO.	PEAK WAVELENGTH		SIZE	POWER	PART NUMBER
		MIN	MAX	(mm)	(W)	
PGT869A2P5G7	PGT011	300	730	598*26mm	9	9405500000PG011
PGT8913A2P5G7	PGT012	300	730	898*26mm	13	9405500000PG012
PGT812018A2P5G7	PGT013	300	730	1198*26mm	18	9405500000PG013
PGT815024A2P5G7	PGT014	300	730	1498*26mm	24	9405500000PG014
PGT824036A2P5G7	PGT015	300	730	2398*26mm	36	9405500000PG015
PGT86018A2P5G7	PGT016	300	730	598*26mm	18	9405500000PG016
PGT89036A2P5G7	PGT017	300	730	898*26mm	36	9405500000PG017
PGT812040A2P5G7	PGT018	300	730	1198*26mm	40	9405500000PG018
PGT815048A2P5G7	PGT019	300	730	1498*26mm	48	9405500000PG019
PGT824065A2P5G7	PGT020	300	730	2398*26mm	65	9405500000PG020
PGT869A2P5G7	PGT021	300	730	598*26mm	9	9405500000PG021
PGT8913A2P5G7	PGT022	300	730	898*26mm	13	9405500000PG022
PGT812018A2P5G7	PGT023	300	730	1198*26mm	18	9405500000PG023
PGT815024A2P5G7	PGT024	300	730	1498*26mm	24	9405500000PG024
PGT824036A2P5G7	PGT025	300	730	2398*26mm	36	9405500000PG025
PGT86018A2P5G7	PGT026	300	730	598*26mm	18	9405500000PG026
PGT89036A2P5G7	PGT027	300	730	898*26mm	36	9405500000PG027
PGT812040A2P5G7	PGT028	300	730	1198*26mm	40	9405500000PG028
PGT815048A2P5G7	PGT029	300	730	1498*26mm	48	9405500000PG029
PGT824065A2P5G7	PGT030	300	730	2398*26mm	65	9405500000PG030

Color wavelength & spectral range

Table 2. Product performance of QUEENDOM T8 plant lamp, VF=220V, Tj=25°C, detection height 50CM.

PRODUCT	RANK NO.	NOMINAL (CCT/k)		TYPICAL WAVELENGTH			PART NUMBER
		MIN	MAX	MIN(nm)	MID(nm)	MAX(nm)	
PGT869A2P5G7	PGT011	/	/	450	660	730	9405500000PG011
PGT8913A2P5G7	PGT012	/	/	450	660	730	9405500000PG012
PGT812018A2P5G7	PGT013	/	/	450	660	730	9405500000PG013
PGT815024A2P5G7	PGT014	/	/	450	660	730	9405500000PG014
PGT824036A2P5G7	PGT015	/	/	450	660	730	9405500000PG015
PGT86018A2P5G7	PGT016	/	/	450	660	730	9405500000PG016
PGT89036A2P5G7	PGT017	/	/	450	660	730	9405500000PG017
PGT812040A2P5G7	PGT018	/	/	450	660	730	9405500000PG018
PGT815048A2P5G7	PGT019	/	/	450	660	730	9405500000PG019
PGT824065A2P5G7	PGT020	/	/	450	660	730	9405500000PG020
PGT869A2P5G7	PGT021	3000	6000	450	660	730	9405500000PG021
PGT8913A2P5G7	PGT022	3000	6000	450	660	730	9405500000PG022
PGT812018A2P5G7	PGT023	3000	6000	450	660	730	9405500000PG023
PGT815024A2P5G7	PGT024	3000	6000	450	660	730	9405500000PG024
PGT824036A2P5G7	PGT025	3000	6000	450	660	730	9405500000PG025
PGT86018A2P5G7	PGT026	3000	6000	450	660	730	9405500000PG026
PGT89036A2P5G7	PGT027	3000	6000	450	660	730	9405500000PG027
PGT812040A2P5G7	PGT028	3000	6000	450	660	730	9405500000PG028
PGT815048A2P5G7	PGT029	3000	6000	450	660	730	9405500000PG029
PGT824065A2P5G7	PGT030	3000	6000	450	660	730	9405500000PG030

Color wavelength & ratio

Table 3. Product performance of QUEENDOM T8 plant lamp, VF=220V, Tj=25°C, detection height 50CM.

PRODUCT	RANK NO.	TYPICAL WAVELENGTH			SPECTRAL MATCHING RITIO (%)						PART NUMBER
		MIN(nm)	MID(nm)	MAX(nm)	RED	BULE	INFRARED	Warm white	Neutral white	True white	
PGT869A2P5G7	PGT011	450	660	730	60%	40%	/	/	/	/	9405500000PG011
PGT8913A2P5G7	PGT012	450	660	730	60%	40%	/	/	/	/	9405500000PG012
PGT812018A2P5G7	PGT013	450	660	730	60%	40%	/	/	/	/	9405500000PG013
PGT815024A2P5G7	PGT014	450	660	730	60%	40%	/	/	/	/	9405500000PG014
PGT824036A2P5G7	PGT015	450	660	730	60%	40%	/	/	/	/	9405500000PG015
PGT86018A2P5G7	PGT016	450	660	730	60%	40%	/	/	/	/	9405500000PG016
PGT89036A2P5G7	PGT017	450	660	730	60%	40%	/	/	/	/	9405500000PG017
PGT812040A2P5G7	PGT018	450	660	730	60%	40%	/	/	/	/	9405500000PG018
PGT815048A2P5G7	PGT019	450	660	730	60%	40%	/	/	/	/	9405500000PG019
PGT824065A2P5G7	PGT020	450	660	730	60%	40%	/	/	/	/	9405500000PG020
PGT869A2P5G7	PGT021	450	660	730	5%	/	5%	60%	30%	/	9405500000PG021
PGT8913A2P5G7	PGT022	450	660	730	5%	/	5%	60%	30%	/	9405500000PG022
PGT812018A2P5G7	PGT023	450	660	730	5%	/	5%	60%	30%	/	9405500000PG023
PGT815024A2P5G7	PGT024	450	660	730	5%	/	5%	60%	30%	/	9405500000PG024
PGT824036A2P5G7	PGT025	450	660	730	5%	/	5%	60%	30%	/	9405500000PG025
PGT86018A2P5G7	PGT026	450	660	730	5%	/	5%	60%	30%	/	9405500000PG026
PGT89036A2P5G7	PGT027	450	660	730	5%	/	5%	60%	30%	/	9405500000PG027
PGT812040A2P5G7	PGT028	450	660	730	5%	/	5%	60%	30%	/	9405500000PG028
PGT815048A2P5G7	PGT029	450	660	730	5%	/	5%	60%	30%	/	9405500000PG029
PGT824065A2P5G7	PGT030	450	660	730	5%	/	5%	60%	30%	/	9405500000PG030

Electrical Index & Photosynthetic Photons

PPFD (μmol/s) (Photosynthetic Photon Flux Density) & Photosynthetic Photon Efficiency: PPE. (μmol/Joule)
Table 4. Product performance of QUEENDOM T8 plant lamp, VF=220V, Tj=25°C, detection height 50CM.

PRODUCT	RANK NO.	PPFD/UMOL/J	PPF/W Typical (μmol/J)	PART NUMBER
PGT869A2P5G7	PGT011	24	2.7	9405500000PG011
PGT8913A2P5G7	PGT012	35	2.7	9405500000PG012
PGT812018A2P5G7	PGT013	49	2.7	9405500000PG013
PGT815024A2P5G7	PGT014	65	2.7	9405500000PG014
PGT824036A2P5G7	PGT015	97	2.7	9405500000PG015
PGT86018A2P5G7	PGT016	49	2.7	9405500000PG016
PGT89036A2P5G7	PGT017	97	2.7	9405500000PG017
PGT812040A2P5G7	PGT018	108	2.7	9405500000PG018
PGT815048A2P5G7	PGT019	130	2.7	9405500000PG019
PGT824065A2P5G7	PGT020	176	2.7	9405500000PG020
PGT869A2P5G7	PGT021	26	2.9	9405500000PG021
PGT8913A2P5G7	PGT022	38	2.9	9405500000PG022
PGT812018A2P5G7	PGT023	52	2.9	9405500000PG023
PGT815024A2P5G7	PGT024	70	2.9	9405500000PG024
PGT824036A2P5G7	PGT025	104	2.9	9405500000PG025
PGT86018A2P5G7	PGT026	52	2.9	9405500000PG026
PGT89036A2P5G7	PGT027	104	2.9	9405500000PG027
PGT812040A2P5G7	PGT028	116	2.9	9405500000PG028
PGT815048A2P5G7	PGT029	139	2.9	9405500000PG029
PGT824065A2P5G7	PGT030	189	2.9	9405500000PG030

Notes for Table 1:
Correlated color temperature is cold-targeted at Tj=25°C.
Luminous flux and CRI specs are based upon mounted package on highly reflective surface at Tj=25°C. Typical CRI is approximately 2 points higher than the minimum CRI specified, but this is not guaranteed.
Lumileds maintains a tolerance of ±2 on CRI and ±7.5% on luminous flux measurements.

Absolute Maximum Ratings

Table 5. Product performance of QUEENDOM T8 plant lamp, VF=220V, Tj=25°C, detection height 50CM.

PRODUCT	RANK NO.	Parameter PD	Operating Temperature Range	Storage Temperature Range	ESD Sensitivity HBM
		Symbol (W)			
PGT8H609A2P5G7	PGT011	12	Minus 30°C To plus 60°C	Minus 40°C To plus 80°C	2000V
PGT8H9013A2P5G7	PGT012	15	Minus 30°C To plus 60°C	Minus 40°C To plus 80°C	2000V
PGT8H12018A2P5G7	PGT013	22	Minus 30°C To plus 60°C	Minus 40°C To plus 80°C	2000V
PGT8H15024A2P5G7	PGT014	28	Minus 30°C To plus 60°C	Minus 40°C To plus 80°C	2000V
PGT8H24036A2P5G7	PGT015	40	Minus 30°C To plus 60°C	Minus 40°C To plus 80°C	2000V
PGT8H6018A2P5G7	PGT016	22	Minus 30°C To plus 60°C	Minus 40°C To plus 80°C	2000V
PGT8H9036A2P5G7	PGT017	40	Minus 30°C To plus 60°C	Minus 40°C To plus 80°C	2000V
PGT8H12040A2P5G7	PGT018	45	Minus 30°C To plus 60°C	Minus 40°C To plus 80°C	2000V
PGT8H15048A2P5G7	PGT019	52	Minus 30°C To plus 60°C	Minus 40°C To plus 80°C	2000V
PGT8H24065A2P5G7	PGT020	70	Minus 30°C To plus 60°C	Minus 40°C To plus 80°C	2000V

Notes:Derate linearly as shown in derating curve.Duty Factor = 10%, Frequency = 1 kHz

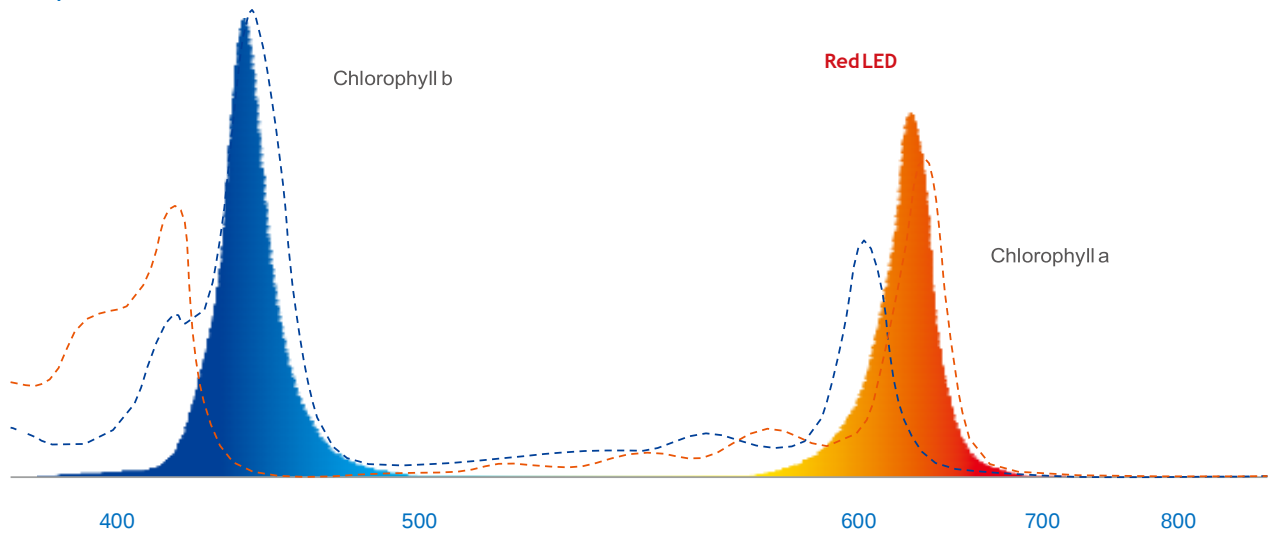
Table 6. Product performance of QUEENDOM T8 plant lamp, VF=220V, Tj=25°C, detection height 50CM.

Specifications Common to All Situations Above		
Light Type	Controlled Environment	Indoor stacked, Indoor Non Stacked, & Greenhouse
	Lighting Scheme	Top Light
	Use Case	Sole-Source & Supplemental
Dimming	Type	0-10V IEC, Dim to Off
	Connector	M12 Connector, waterproof
Safety & Certifications	UL8800 wet location	Certified
	Design Lights Consortium	Pending
Lifetime	Photon Flux Maintenance L90	>50,000 hrs
	Warranty	5 years parts and labor

Characteristic Curves

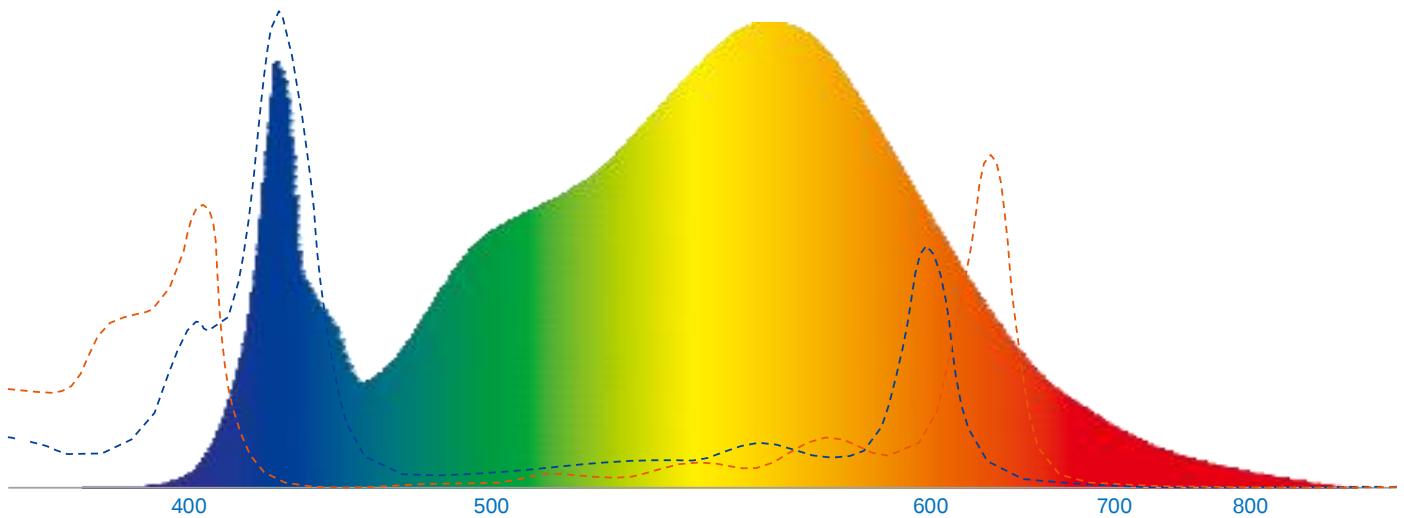
Spectral Power Distribution Characteristics

Narrow Spectrum

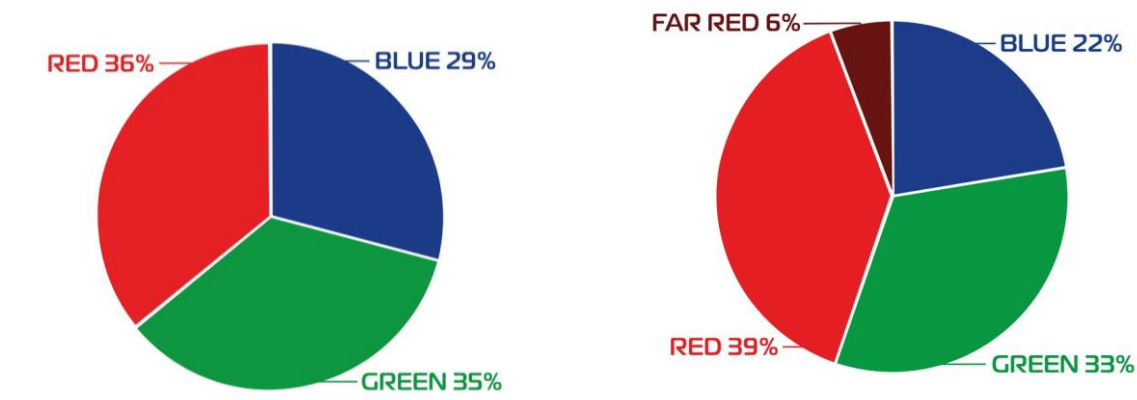


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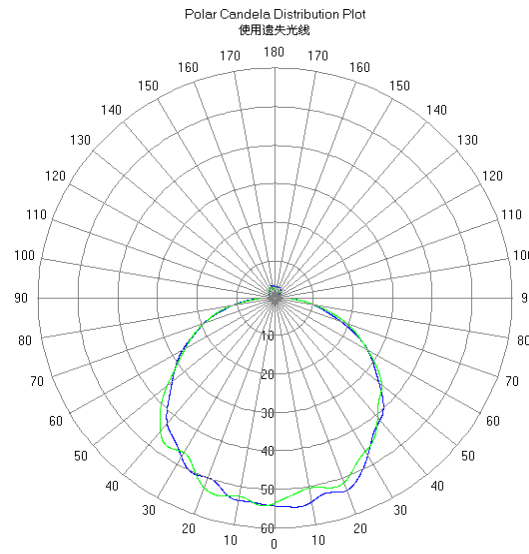
Full Spectrum



SPECTRUM RATIO



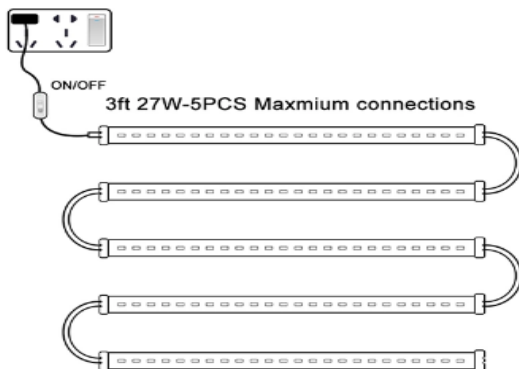
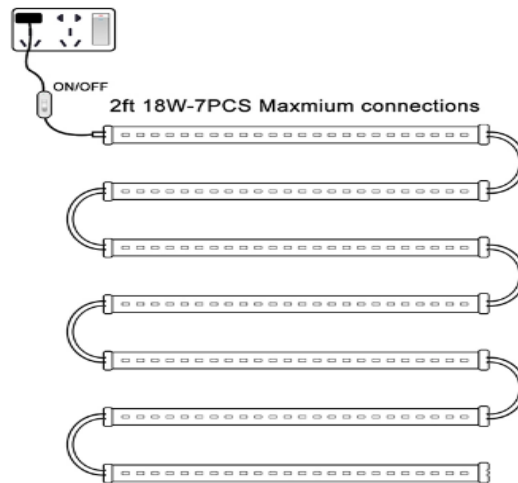
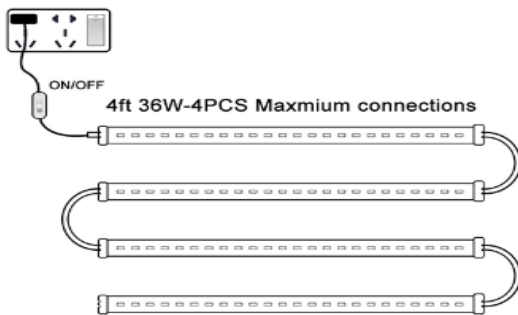
Luminous Intensity Distribution



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Wiring Guide

Daisy chain installation suggestions :



Different plugs for options





LED防水灯管安装使用说明书



安装步骤

- 1、依图A在天花合理位置钻壁虎安装孔
- 2、依图B在钻好的壁虎孔位锁上卡扣
- 3、依图C将灯管按照垂直方向卡入卡扣内
- 4、依图D检查卡好后的灯管是否安装牢固
- 5、依图E将灯管的外露线按照要求接好
- 6、将LED防水灯管接通电源，并检查灯具是否正常工作，LED防水灯管是否正常点亮

(注意：出货状态不附带安装零件包)

安全警示

- 1、产品使用电压不得超过额定电压范围 (220V~50Hz)
- 2、不得随意改造灯具或自行调换零部件
- 3、本产品需要串接时，最大串接数量不得超过10支
- 4、该产品使用不能违反任何防火法规
- 5、产品安装尽量避开高温物或高热源
- 6、产品必须由持电工操作证的电工根据电器产品安装规程进行安装和维修
- 7、产品使用过程中有任何疑问请致电当地正发经销商或本公司客户服务部

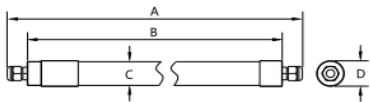
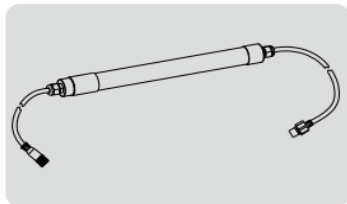
产品执行标准

GB7000.1-2015

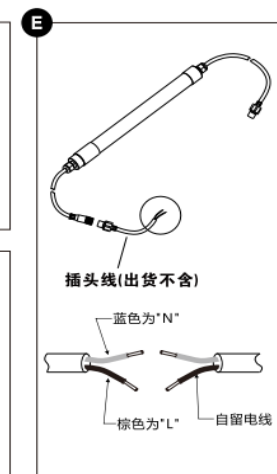
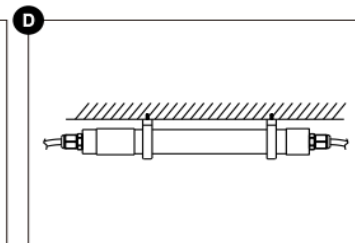
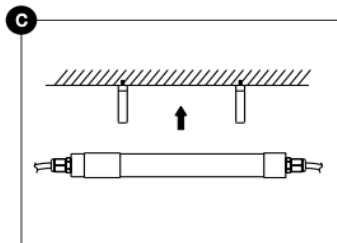
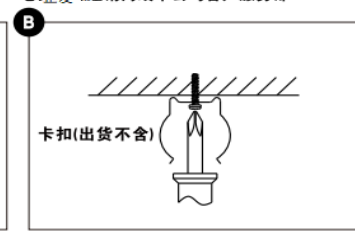
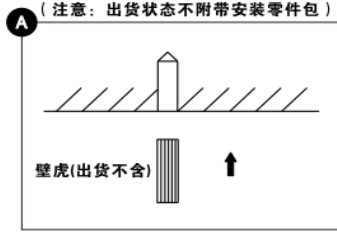
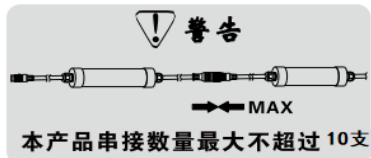
以及客户定制要求

声明：本LED灯具产品的光学辐射符合GB/T20145-2006中“豁免级”的要求。

接线方式为Z型连接。此灯具的外部软线或软线不能替换；如果软线损坏，该灯具即应报废。此灯具内的光源应由制造商或其服务代理商或有类似资格的人来更换。

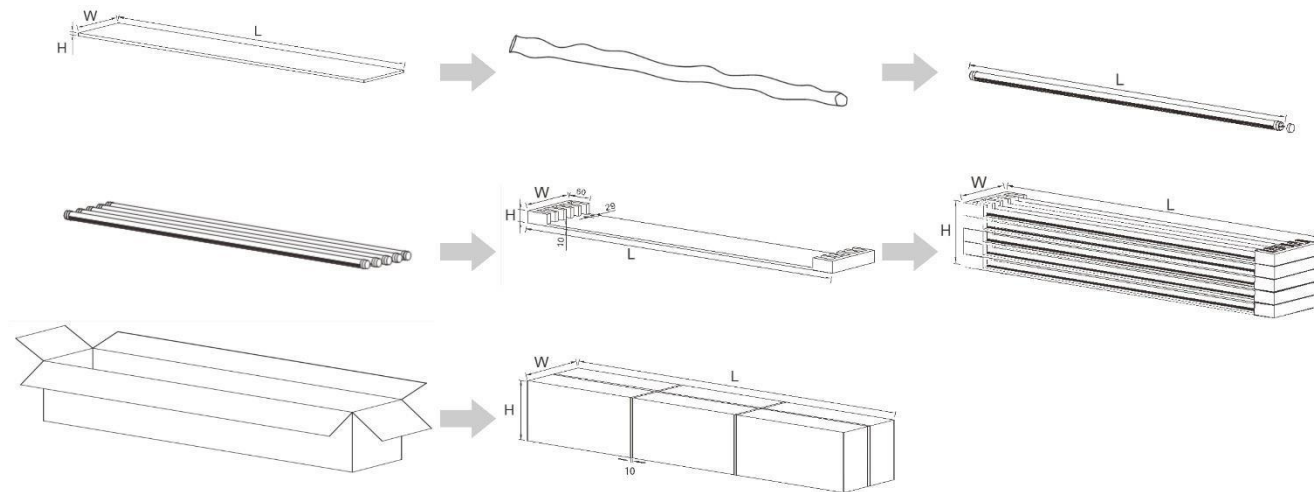


型号规格	产品尺寸(mm)			
	A	B	C	D
LEDYZ26AD018	1218	1178	26	28
.....				



说明：此说明书为壁系列通用型说明书，如有外观图形与说明书内不一致，依实际产品为准。

Installation method Cardboard Box



Packing Specification

- With Stopper



VF:XX-XX
IV:XX-XX
WLD:XX-XX
BIN:XX-XX
DATE:XX-XX-XX

- Without Stopper

CPN:Customer's Product Number
P/N:Product Number
QTY:Packing Quantity
LOT NO:Lot Number
VF:Forward Voltage Rank
IV:Luminous Intensity Rank
WLD:Dom. Wavelength Rank
BIN:BIN Code
DATE:Date Of Dispatch

Over-current-proof

quality assurance:

1. Quality assurance is based on the correct storage, transportation, installation, use and maintenance of the product.
2. Product failure caused by man-made damage or improper use is not covered by the warranty.
3. During the warranty period, the company will select appropriate warranty services based on the actual situation, including repair and replacement of parts or replacement of new products.

safety warning:

Non-professionals are not allowed to perform related operations.

1. Please check the packaging and product integrity before installation and use. Do not use the product if it is damaged due to transportation.
2. Avoid hitting or heavily pressing the product with objects.
3. Handle it with care during transportation and installation.
4. The product must not be powered on before installation is completed. Please turn off the power first before cleaning.
5. Avoid using chemicals and corrosive substances to clean the surface of the lamp.
6. Do not touch the lamp when it is on.
7. It is normal for the lamp to generate heat when it is lit.

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