

**SIHON<sup>®</sup>**



*Sihon Electronics Co., Ltd.*

**SIHON<sup>®</sup>**

## **LED LIGHTING**

Focus on LED lighting, to create more excellent quality research  
more energy-efficient technology, more innovative products  
Provide more intimate service...



# COMPANY INTRODUCTION

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## Starting From LED For Energy Saving

SIHON is located in the famous historical and cultural cities in China Tianchang, professional engaged in outdoor lighting engineering and lighting outdoor lighting production type modern enterprise.

SIHON has been committed to the field of business activities in LED: LED application product development, production and sales. The main products are: LED lantern lights, LED guardrail lamps, led corrugated lamps, led contour lamp, led stars light, led buried lights, led flood light, LED light source, LED landscape lamp, high power LED solar lights, etc.. Products of high quality, in the lighting counterparts in a unique, highly characteristic.

SIHON has a first-class lighting R & D design center, internal and external marketing center, achieved by leaps and bounds sales performance, brand awareness and reputation growing.

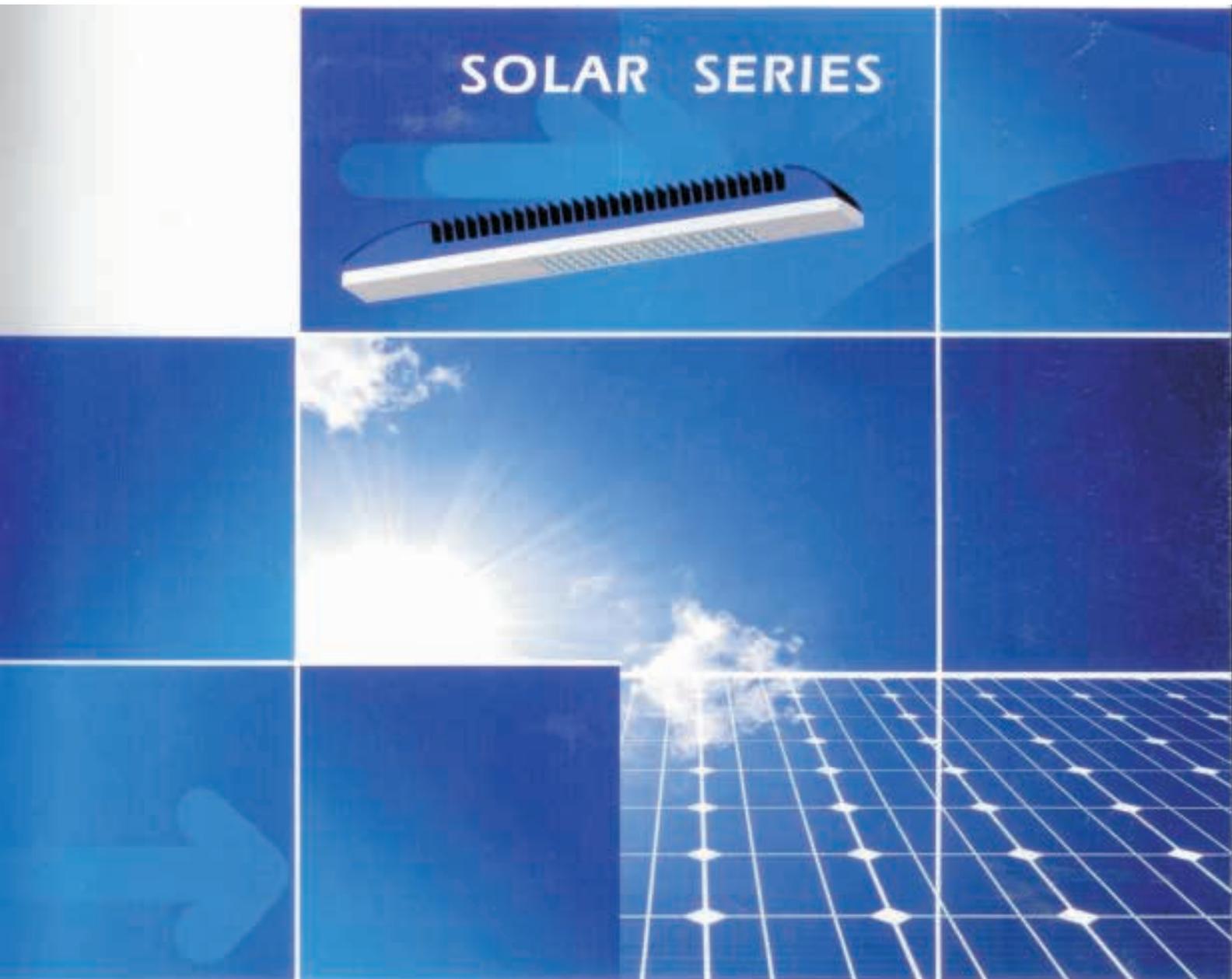
We adhere to the "people-oriented, win-win, express, excellence" business purposes, as always, for every user to provide fast, warm, thoughtful, attentive service, look forward to working with you to create a bright future!





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SIHON is a professional company specializing in the research, development, design, manufacture and installation of solar photovoltaic lighting technology products.

### 1. Advanced Product Technology

The company and the Chinese college and a number of institutions and experts to establish long-term close cooperative relations, research and development of solar photovoltaic lighting products, In the field to reach the domestic leading level. Dedication to social security and practical, economical and cheap, reliable performance, safe and convenient, long life, maintenance free new seniorSecondary lighting products.

### 2. Wide range Of Applications

The company developed the solar photovoltaic lighting has formed a lawn lamp, courtyard lamp, road lamp, landscape lamp, high pole lamp, lamp, investment spot light, road Road lamps, advertising lights, building lights are a large class of products. Widely used in cities, parks, residential areas, institutions, squares, buildings, green Selection space. Meet user needs to meet customer satisfaction.

### 3. The Main Performance And Features Of the Product

- 1) the choice of the international famous brands of solar PV modules, the use of life greater than 20 years.
- 2) equipped with a special device of the special light source light bulb, the use life is more than 20000 hours.
- 3) dedicated microcomputer automatic control system, automatic detecting, regulating and charging control and protection system; the optical control, voice, time control, inductive control, infrared remote control system And standby power supply automatic starting system.
- 4) reservations or special set lighting time, brightness, color control system.
- 5) high capacity maintenance free battery, according to customer requirements can be designed to 10 to 1 times the amount of electricity reserves.
- 6) pole bracket, lamp, anti oxidation, anti corrosion treatment, the lamp cover adopts specially processed toughened glass. Environmental adaptability, anti frost, anti ultraviolet. Can At the temperature of -25 degrees to 55 degrees, humidity is less than 85% of the environment within the normal work.
- 7) easy installation, structure connection using standard parts. No external circuit connection, installed directly on the ground, without trenching and special cable
- 8) work under the safe voltage, will not occur electric shock accident. A one-time investment, long-term income, no need to pay the electricity bill.
- 9) in the light of the microcomputer control, management, without the need to manage the power supply, do not need to often change the light bulb.

### 4. High Quality And Efficient, Full Range Of After-sales Service

Company to each user to establish a detailed user service files, establish a regular return system. The company promises to all users: the use of the company's products The user, since the installation of delivery within one year free maintenance service. Lifelong enjoyment of maintenance services. For the user's maintenance needs within 24 hours to arrive within 48 hours to complete.



## Introduction Of solar Energy Lighting System

- 1) the use of solar panels with special microcomputer intelligent controller, to convert light energy into electrical energy, no need to dig trenches cable, energy saving and environmental protection.
- 2) microcomputer intelligent controller adopts advanced special integrated circuit manufacturing, high conversion efficiency, with the anti charge, over discharge, automatically adjust the charging current, polarity reverse connection and output short circuit protection function, greatly extend the battery life, safe and reliable, easy to use.
- 3) highly effective maintenance free colloid storage battery, which is strong and durable.
- 4) time controller for automatic tracking, with the seasonal variations of light irradiation time automatically adjust the time to turn on the lights, and the intelligent energy-saving control, night automatically shut down the road lamp and prolong lighting time.

## Working Principle Of Solar Energy Lighting

In the day, when the sun is on the surface of the solar cell, the photovoltaic effect of the solar cell generates electricity, electricity can be transmitted through the wire to the controller, the controller detects the voltage of the battery, the night, the light gradually weakened, the working voltage of the solar cell, the work flow continuously decreased, when the voltage is less than the controller, the solar battery charge ends, and the discharge end until the second day solar cell. This constant cycle, which is the principle of solar energy lamp light.

### Note:

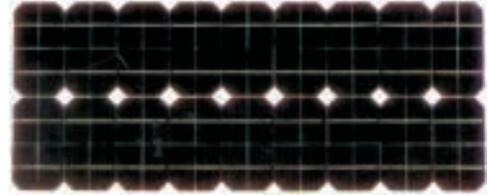
- 1) non professional personnel without permission to open the electric door, to avoid the risk of electric shock or damage to solar lamps.
- 2) in the maintenance of solar lamps, should not contact the terminal of the battery components may exceed the safety of the human body, so as to avoid electric shock.
- 3) component, the battery open circuit voltage in the open door maintenance, never let the children contact lines to avoid electric shock, to cause injury to children.
- 4) the installation of a good underground drainage system should be a good underground drainage system, not free to open the ditch, to prevent the battery compartment is soaked in water.



## Solar Cell Module

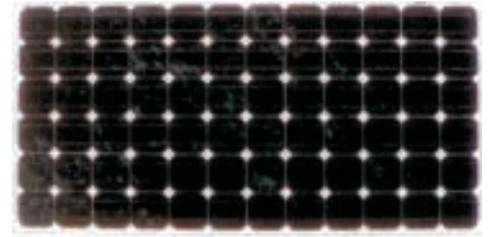
Mechanical Data	
Length:	1196mm
Width:	555mm
Height:	35mm
Weight:	8.5kg
Junction Box:	1SOLON box with bypass diodes
Cable:	700mm
Glass:	3.2mm
Cell:	36pcs, size:6"(125*125mm)
Eva:	EVA
Backsheet	TPT
Frame:	AL
Size:	1196*555*35mm

Specifications(4\*9)



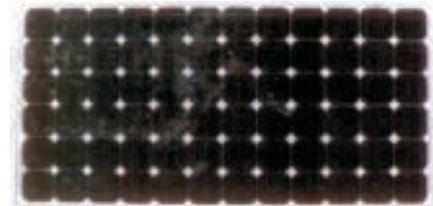
Mechanical Data	
Length:	1580mm
Width:	808mm
Height:	46.5mm
Weight:	15kg
Junction Box:	1SOLON box with bypass diodes
Cable:	900mm/700mm
Glass:	3.2mm
Cell:	72pcs, size:6"(125*125mm)
Eva:	EVA
Backsheet	TPT
Frame:	AL
Size:	1580*808*46.5mm

Specifications(6\*12)



Mechanical Data	
Length:	1191mm
Width:	1067mm
Height:	46.5mm
Weight:	15kg
Junction Box:	1SOLON box with bypass diodes
Cable:	900mm/700mm
Glass:	3.2mm
Cell:	36pcs, size:6"(125*125mm)
Eva:	EVA
Backsheet	TPT
Frame:	AL
Size:	1191*1067*46.5mm

Specifications(8\*9)



## Technical Parameters(5WP-185WP)

Model	PM(W)	Voc(V)	IM(A)	Voc(W)	Isc(A)	W*L*H(mm)	weight(kg)
SH-5Wp	5W	17.5	0.29	21.5	0.32	230*276*30	1
SH-10Wp	10W	17.5	0.57	21.5	0.65	296*274*30	1.4
SH-15Wp	15W	17.5	0.86	21.5	0.97	425*445*30	2
SH-20Wp	20W	17.5	1.14	21.5	1.29	425*445*30	2.7
SH-25Wp	25W	17.5	1.43	21.5	1.61	426*826*30	6
SH-30Wp	30W	17.5	1.71	21.5	1.94	426*826*30	3.5
SH-35Wp	35W	17.5	1.99	21.5	2.26	426*826*30	4.2
SH-40Wp	40W	17.5	2.29	21.5	2.58	426*826*30	4.5
SH-45Wp	45W	17.5	2.57	21.5	2.96	426*826*30	4.5
SH-50Wp	50W	17.5	2.86	21.5	3.23	426*966*30	5
SH-55Wp	55W	17.5	3.14	21.5	3.55	426*1104*30	5.5
SH-60Wp	60W	17.5	3.43	21.5	3.88	426*1104*30	5.5
SH-65Wp	65W	17.5	3.71	21.5	4.21	546*1203*35	6
SH-65Wp	65W	17.5	3.71	21.5	4.21	808*822*30	6
SH-70Wp	70W	17.5	3.99	21.5	4.52	546*1203*35	6
SH-70Wp	70W	17.5	3.99	21.5	4.52	808*822*30	6
SH-75Wp	75W	17.5	4.29	21.5	4.84	546*1203*35	8
SH-75Wp	75W	17.5	4.29	21.5	4.84	808*822*30	8
SH-80Wp	80W	17.5	4.57	21.5	5.17	546*1203*35	8
SH-80Wp	80W	17.5	4.57	21.5	5.17	808*822*30	8
SH-85Wp	85W	17.5	4.51	21.5	5.58	546*1203*35	8
SH-85Wp	85W	17.5	4.51	21.5	5.58	808*822*30	8
SH-90Wp	90W	17.5	5.14	21.5	5.81	546*1203*35	8
SH-90Wp	90W	17.5	5.14	21.5	5.81	808*822*30	8
SH-100Wp	100W	35.0	2.86	43.0	3.02	808*1074*30	10
SH-105Wp	105W	35.0	2.99	43.0	3.16	808*1074*30	10
SH-110Wp	110W	35.0	3.12	43.0	3.44	808*1074*30	10
SH-115Wp	115W	35.0	3.25	43.0	3.56	808*1074*30	10
SH-120Wp	120W	35.0	3.43	43.0	3.69	808*1210*30	11
SH-125Wp	125W	35.0	3.57	43.0	3.85	808*1210*30	11
SH-130Wp	130W	35.0	3.72	43.0	4.03	808*1508*35	16
SH-135Wp	135W	35.0	3.86	43.0	4.19	808*1508*35	16
SH-140Wp	140W	35.0	4.01	43.0	4.36	808*1508*35	16
SH-145Wp	145W	35.0	4.14	43.0	4.53	808*1508*35	16
SH-150Wp	150W	35.0	4.28	43.0	4.87	808*1508*35	16
SH-155Wp	155W	35.0	4.43	43.0	4.91	808*1508*35	16
SH-160Wp	160W	35.0	4.57	43.0	5.02	808*1508*35	16
SH-160Wp	160W	35.0	4.72	43.0	5.19	808*1508*35	16
SH-170Wp	170W	35.0	4.86	43.0	5.36	808*1508*35	16
SH-175Wp	175W	35.0	4.99	43.0	5.53	808*1508*35	16
SH-180Wp	180W	35.0	5.14	43.0	5.81	808*1508*35	16
SH-185Wp	185W	35.0	5.28	43.0	5.98	808*1508*35	16

## Solar Photovoltaic Power Generation System

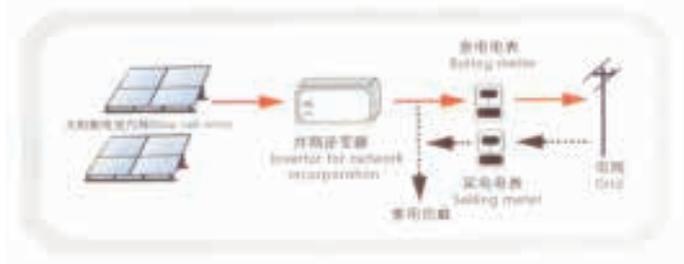
### Stand-alone Solar Photovoltaic Power Generation System

The stand-alone photovoltaic power generation system needs a battery as the energy storage device, and its system structure is shown in fig.. It is mainly used in the remote area and population of the non power grid.

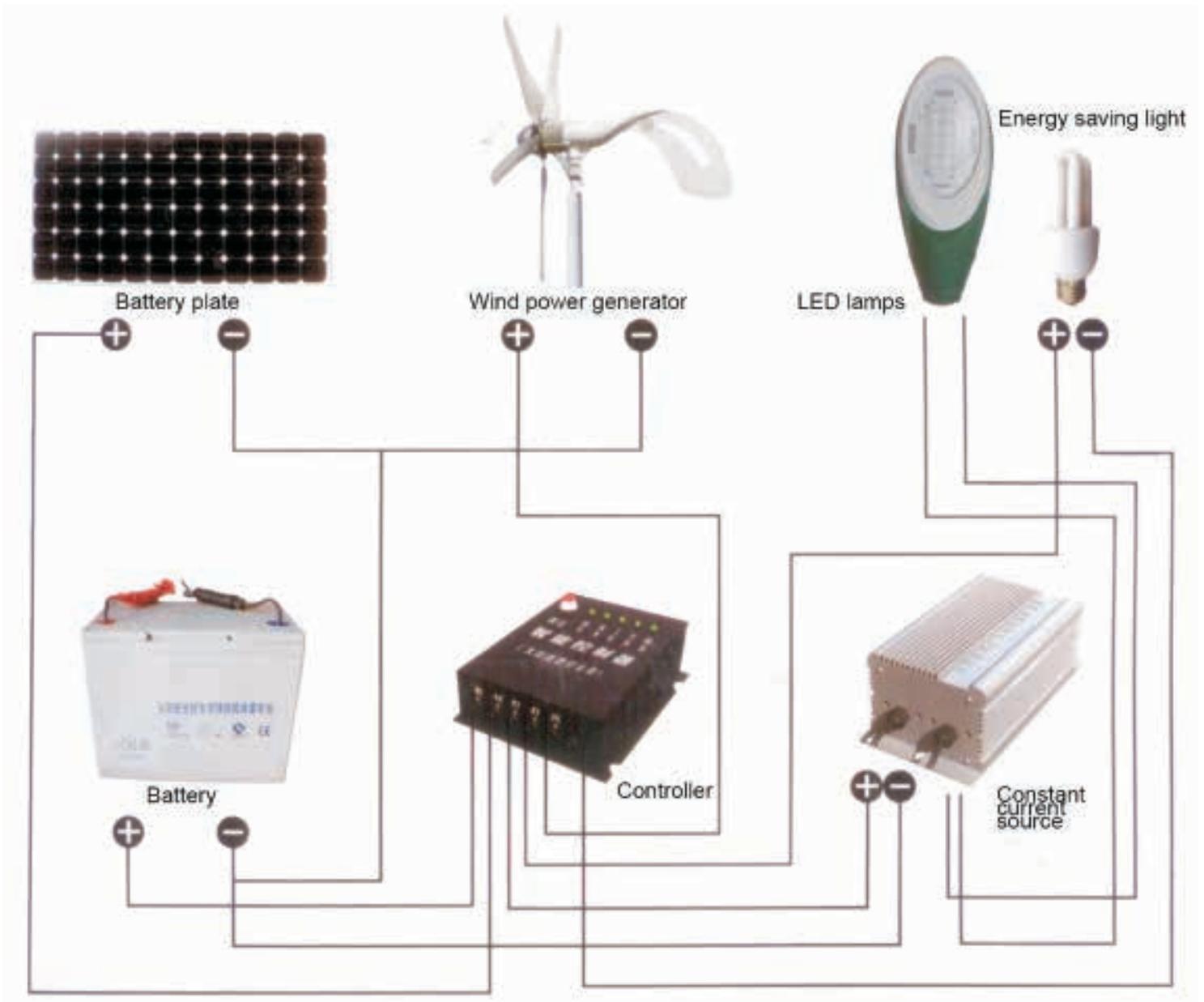


### Grid Connected Photovoltaic Power Generation System

In the area of public power grid, photovoltaic power generation system is connected with the power grid in general, that is, the grid connected operation mode, the structure diagram of the. The grid connected photovoltaic power generation system is a little bit of the battery, and the grid as the energy storage unit to reduce the cost of power plant design. The power can be fed into the grid, to power grid energy storage device, than the investment in the construction of independent photovoltaic system can reduce 35% - 45%, so that the generation cost is greatly reduced. Dispense with the battery system and improve MTBF and battery pollution two.



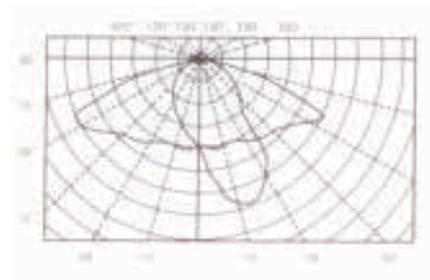
## Schematic Diagram Of Solar Energy Lighting System





SH-TYN001

**Light Distribution Curve**



**Product Description**

**Material characteristic:**

The use of imported chips, high efficiency and stability, aesthetic design, simple fashion light source chamber and electrical box separate from each other, independent cooling, high efficiency, long life, unique anti dazzle design system, high environment, wide voltage input, constant current drive to use imported original device, stable and durable, lamps and lanterns design has a breathing system, ensure dust, waterproof, maintain air pressure balance. Surface superconducting hot metal paint, industrial texture, corrosion resistance

**Technical parameters:**

- Power supply: AC85-260V/50-60Hz
- Light source: LED (40~180) \*1W
- LED junction temperature: 60
- LED luminous efficiency: > 90lm/W
- Light energy: 7200Lm
- Color temperature: 5500K
- Color rendering: Ra > 75%; power factor: > 0.95
- Total harmonic distortion: 15%; wind resistance index: 12
- Protection class: IP65, with light curve: bat wing
- Working environment temperature: -40; ~+50
- Post installation height: 6-10 meters
- Lamp installation diameter: 60mm

**Place of use:**

Main roads, support, factory area road, campus road, square road, bridge



SH-TYN002

### Solar Road Lamp

Pole: height 6-8m (optional), a full set of hot dip galvanized steel products after plastic powder spray outdoor high-quality steel powder

Adapter light source: low pressure energy saving lamps, ceramic metal halide lamp, LED 5-20W light source (recommended)

Solar cell: 30-60W, high conversion rate of imports of single / polycrystalline solar cell components, power generation

Storage battery: 30AH~80AH fully enclosed valve controlled maintenance free lead-acid battery

Controller: special solar controller using single-chip microcomputer and digital circuit intelligent control, containing optical control, timing, overcharge, put, lightning protection

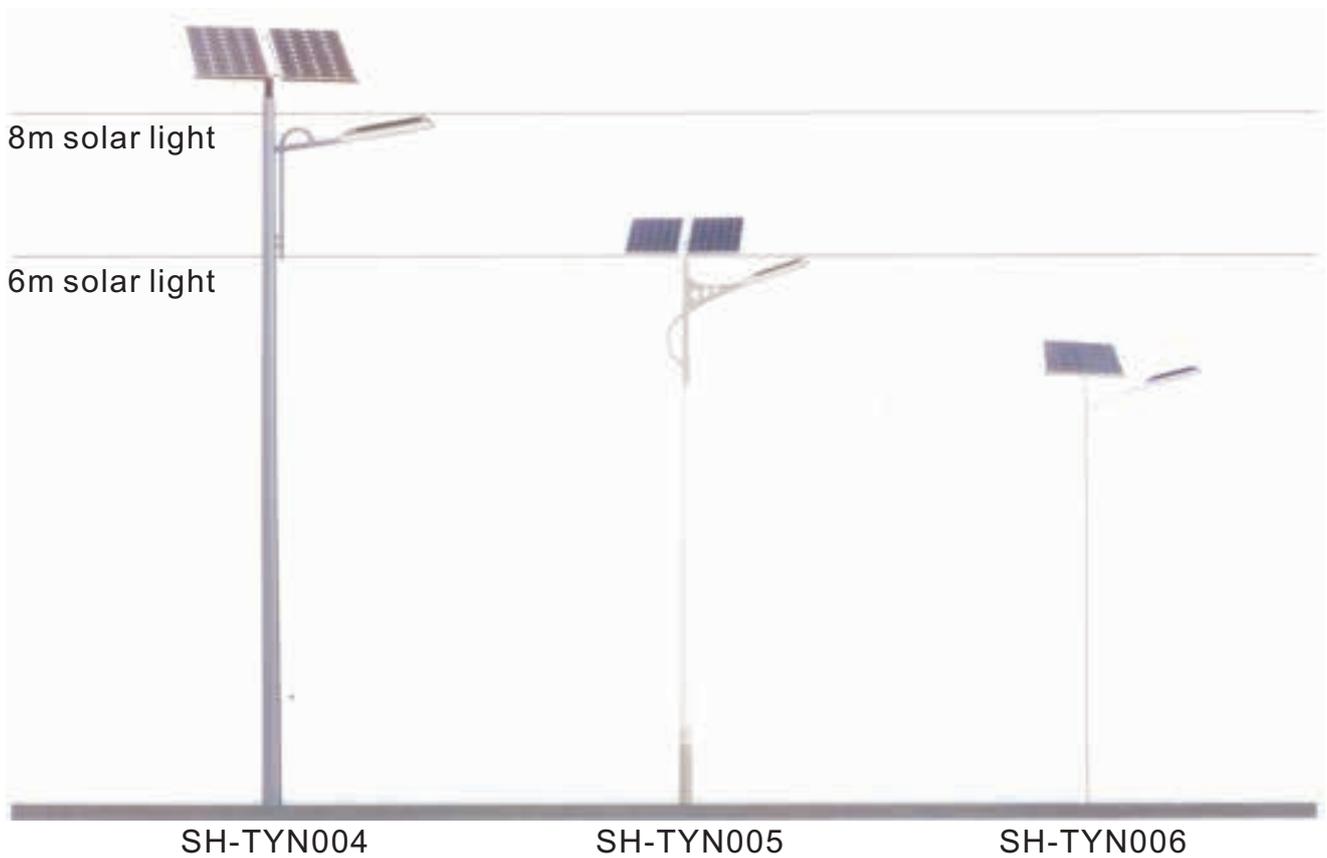
Measure function

Performance: in the case of sufficient power, can be used continuously 6~8 rainy days

Scope of application: the annual sunshine time is more than 2200 hours.



SH-TYN003

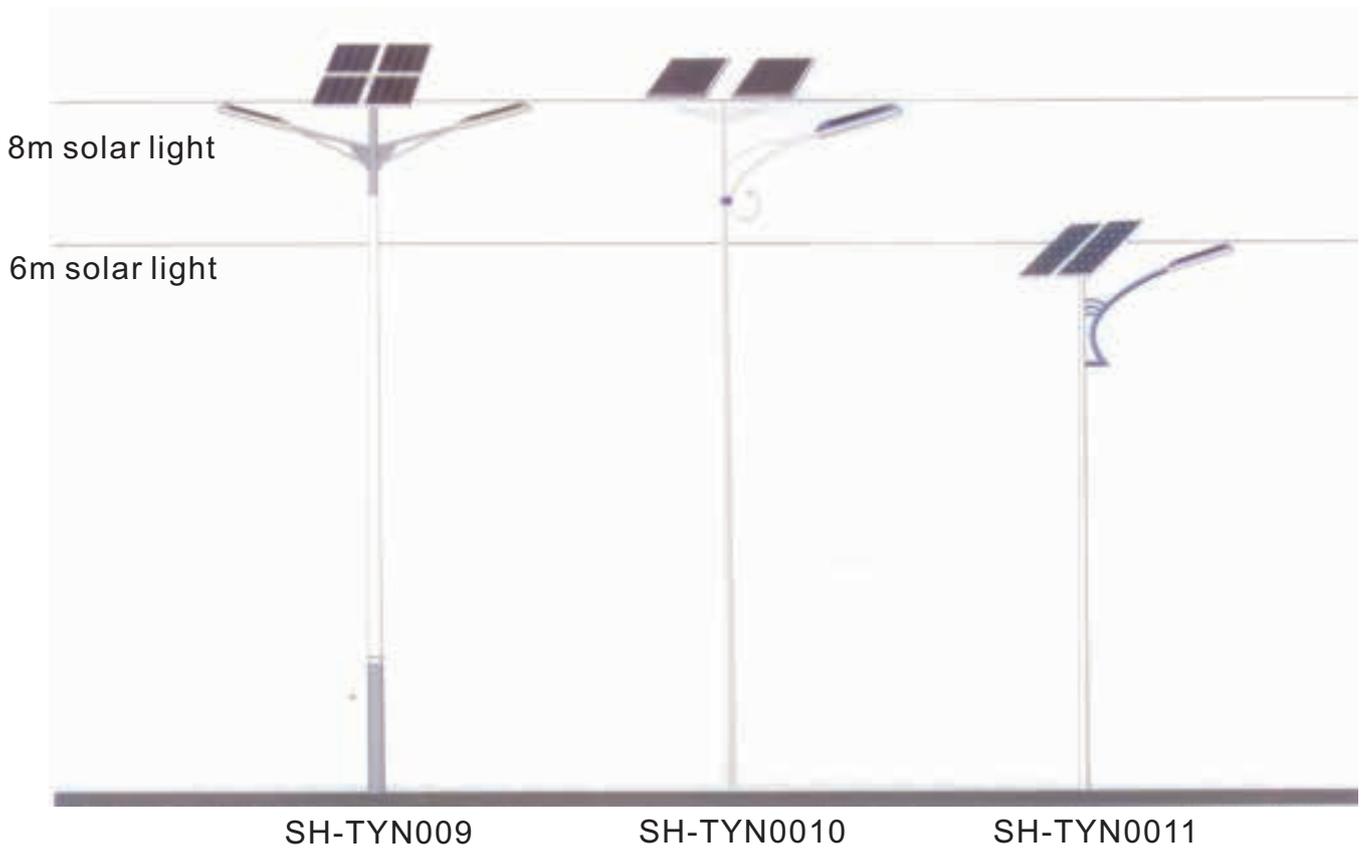




SH-TYN007



SH-TYN008



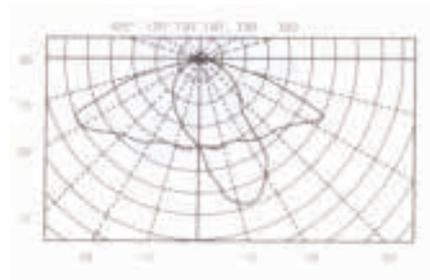


SH-TYN012



SH-TYN013

**Light Distribution Curve**



**Product Description**

**Material characteristic:**

The use of imported chips, high efficiency and stability, aesthetic design, simple fashion light source chamber and electrical box separate from each other, independent cooling, high efficiency, long life, unique anti dazzle design system, high environment, wide voltage input, constant current drive to use imported original device, stable and durable, lamps and lanterns design has a breathing system, ensure dust, waterproof, maintain air pressure balance. Surface superconducting hot metal paint, industrial texture, corrosion resistance

**Technical parameters:**

- Power supply: AC85-260V/50-60Hz
- Light source: LED (40~180) \*1W
- LED junction temperature: 60
- LED luminous efficiency: > 90lm/W
- Light energy: 7200Lm
- Color temperature: 5500K
- Color rendering: Ra > 75%; power factor: > 0.95
- Total harmonic distortion: 15%; wind resistance index: 12
- Protection class: IP65, with light curve: bat wing
- Working environment temperature: -40; ~+50
- Post installation height: 6-10 meters
- Lamp installation diameter: 60mm

**Place of use:**

Main roads, support, factory area road, campus road, square road, bridge



SH-TYN014

### Solar Road Lamp

Pole: height 6-8m (optional), a full set of hot dip galvanized steel products after plastic powder spray outdoor high-quality steel powder

Adapter light source: low pressure energy saving lamps, ceramic metal halide lamp, LED 5-20W light source (recommended)

Solar cell: 30-60W, high conversion rate of imports of single / polycrystalline solar cell components, power generation

Storage battery: 30AH~80AH fully enclosed valve controlled maintenance free lead-acid battery

Controller: special solar controller using single-chip microcomputer and digital circuit intelligent control, containing optical control, timing, overcharge, put, lightning protection

Measure function

Performance: in the case of sufficient power, can be used continuously 6~8 rainy days

Scope of application: the annual sunshine time is more than 2200 hours.



SH-TYN015

8m solar light

6m solar light



SH-TYN016

SH-TYN0017

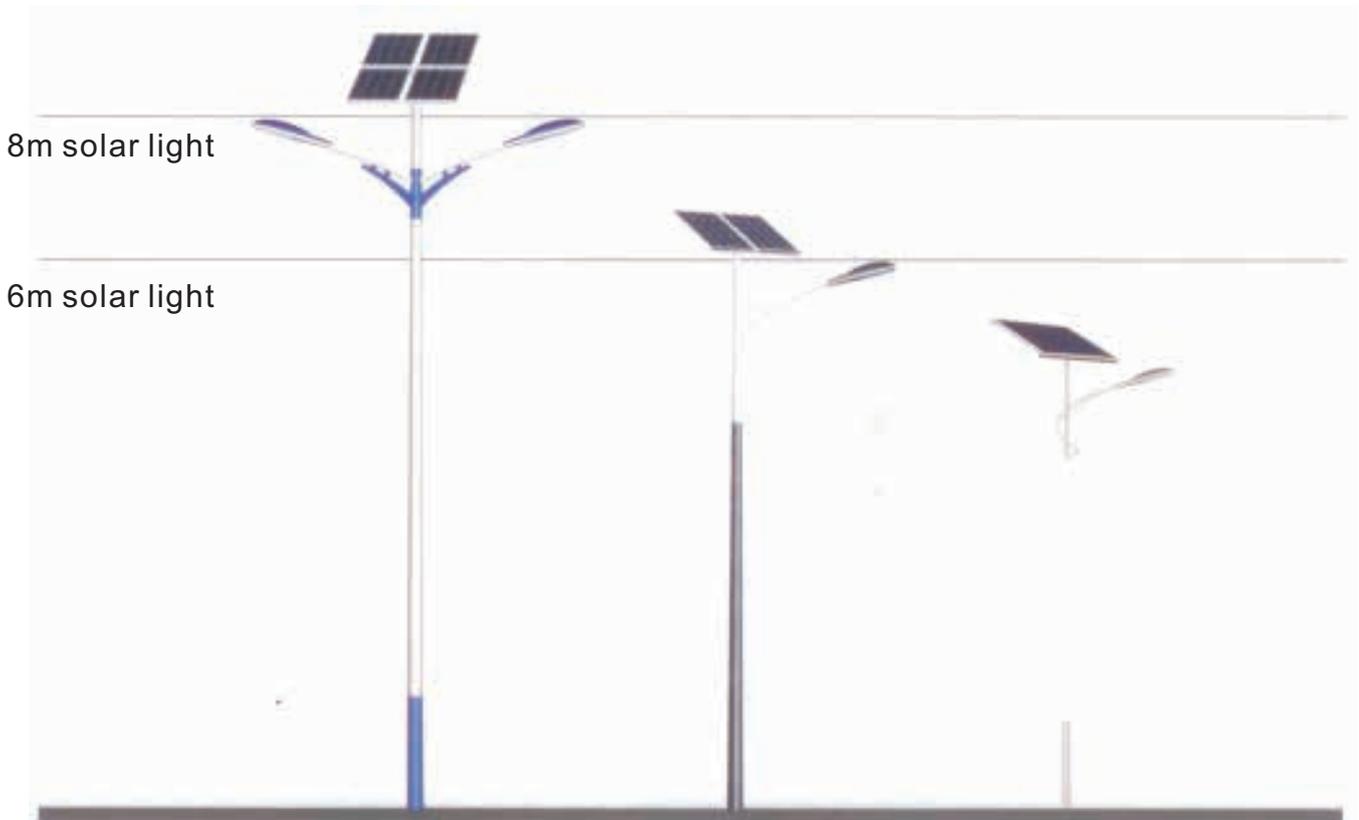
SH-TYN0018



SH-TYN019



SH-TYN015



8m solar light

6m solar light

SH-TYN021

SH-TYN0022

SH-TYN0023



SH-TYN024



## Product Description

### Material characteristic:

The use of imported chips, high efficiency and stability, aesthetic design, simple fashion light source chamber and electrical box separate from each other, independent cooling, high efficiency, long life, unique anti dazzle design system, high environment, wide voltage input, constant current drive to use imported original device, stable and durable, lamps and lanterns design has a breathing system, ensure dust, waterproof, maintain air pressure balance. Surface superconducting hot metal paint, industrial texture, corrosion resistance

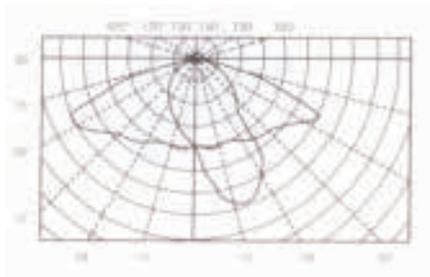
### Technical parameters:

Power supply: AC85-260V/50-60Hz  
Light source: LED (40~180) \*1W  
LED junction temperature: 60  
LED luminous efficiency: > 90lm/W  
Light energy: 7200Lm  
Color temperature: 5500K  
Color rendering: Ra > 75%; power factor: > 0.95  
Total harmonic distortion: 15%;  
wind resistance index: 12  
Protection class: IP65, with light curve: bat wing  
Working environment temperature: -40; ~+50  
Post installation height: 6-10 meters  
Lamp installation diameter: 60mm

### Place of use:

Main roads, support, factory area road, campus road, square road, bridge

## Light Distribution Curve



SH-TYN025



SH-TYN026

### Solar Road Lamp

Pole: height 6-8m (optional), a full set of hot dip galvanized steel products after plastic powder spray outdoor high-quality steel powder

Adapter light source: low pressure energy saving lamps, ceramic metal halide lamp, LED 5-20W light source (recommended)

Solar cell: 30-60W, high conversion rate of imports of single / polycrystalline solar cell components, power generation

Storage battery: 30AH~80AH fully enclosed valve controlled maintenance free lead-acid battery

Controller: special solar controller using single-chip microcomputer and digital circuit intelligent control, containing optical control, timing, overcharge, put, lightning protection

Measure function

Performance: in the case of sufficient power, can be used continuously 6~8 rainy days

Scope of application: the annual sunshine time is more than 2200 hours.



## Product Description

### Material characteristic:

The use of imported chips, high efficiency and stability, aesthetic design, simple fashion light source chamber and electrical box separate from each other, independent cooling, high efficiency, long life, unique anti dazzle design system, high environment, wide voltage input, constant current drive to use imported original device, stable and durable, lamps and lanterns design has a breathing system, ensure dust, waterproof, maintain air pressure balance. Surface superconducting hot metal paint, industrial texture, corrosion resistance

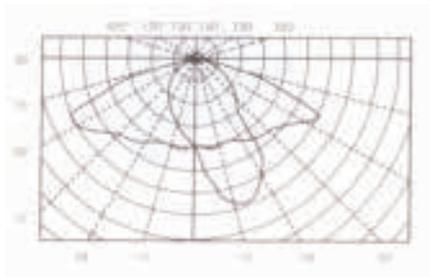
### Technical parameters:

Power supply: AC85-260V/50-60Hz  
Light source: LED (40~180) \*1W  
LED junction temperature: 60  
LED luminous efficiency: > 90lm/W  
Light energy: 7200Lm  
Color temperature: 5500K  
Color rendering: Ra > 75%; power factor: > 0.95  
Total harmonic distortion: 15%;  
wind resistance index: 12  
Protection class: IP65, with light curve: bat wing  
Working environment temperature: -40; ~+50  
Post installation height: 6-10 meters  
Lamp installation diameter: 60mm

### Place of use:

Main roads, support, factory area road, campus road, square road, bridge

## Light Distribution Curve



SH-TYN027



SH-TYN026

### Solar Road Lamp

Pole: height 6-8m (optional), a full set of hot dip galvanized steel products after plastic powder spray outdoor high-quality steel powder

Adapter light source: low pressure energy saving lamps, ceramic metal halide lamp, LED 5-20W light source (recommended)

Solar cell: 30-60W, high conversion rate of imports of single / polycrystalline solar cell components, power generation

Storage battery: 30AH~80AH fully enclosed valve controlled maintenance free lead-acid battery

Controller: special solar controller using single-chip microcomputer and digital circuit intelligent control, containing optical control, timing, overcharge, put, lightning protection

Measure function

Performance: in the case of sufficient power, can be used continuously 6~8 rainy days

Scope of application: the annual sunshine time is more than 2200 hours.



## Product Description

### Material characteristic:

The use of imported chips, high efficiency and stability, aesthetic design, simple fashion light source chamber and electrical box separate from each other, independent cooling, high efficiency, long life, unique anti dazzle design system, high environment, wide voltage input, constant current drive to use imported original device, stable and durable, lamps and lanterns design has a breathing system, ensure dust, waterproof, maintain air pressure balance. Surface superconducting hot metal paint, industrial texture, corrosion resistance

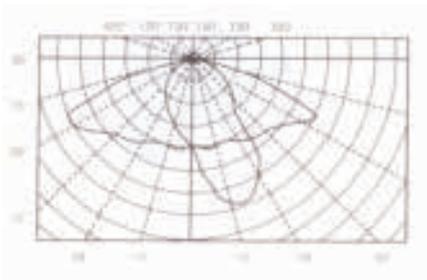
### Technical parameters:

Power supply: AC85-260V/50-60Hz  
Light source: LED (40~180) \*1W  
LED junction temperature: 60  
LED luminous efficiency: > 90lm/W  
Light energy: 7200Lm  
Color temperature: 5500K  
Color rendering: Ra > 75%; power factor: > 0.95  
Total harmonic distortion: 15%;  
wind resistance index: 12  
Protection class: IP65, with light curve: bat wing  
Working environment temperature; -40; ~+50  
Post installation height: 6-10 meters  
Lamp installation diameter: 60mm

### Place of use:

Main roads, support, factory area road, campus road, square road, bridge

## Light Distribution Curve



SH-TYN029



## SH-TYN030

### Solar Road Lamp

Pole: height 6-8m (optional), a full set of hot dip galvanized steel products after plastic powder spray outdoor high-quality steel powder

Adapter light source: low pressure energy saving lamps, ceramic metal halide lamp, LED 5-20W light source (recommended)

Solar cell: 30-60W, high conversion rate of imports of single / polycrystalline solar cell components, power generation

Storage battery: 30AH~80AH fully enclosed valve controlled maintenance free lead-acid battery

Controller: special solar controller using single-chip microcomputer and digital circuit intelligent control, containing optical control, timing, overcharge, put, lightning protection

Measure function

Performance: in the case of sufficient power, can be used continuously 6~8 rainy days

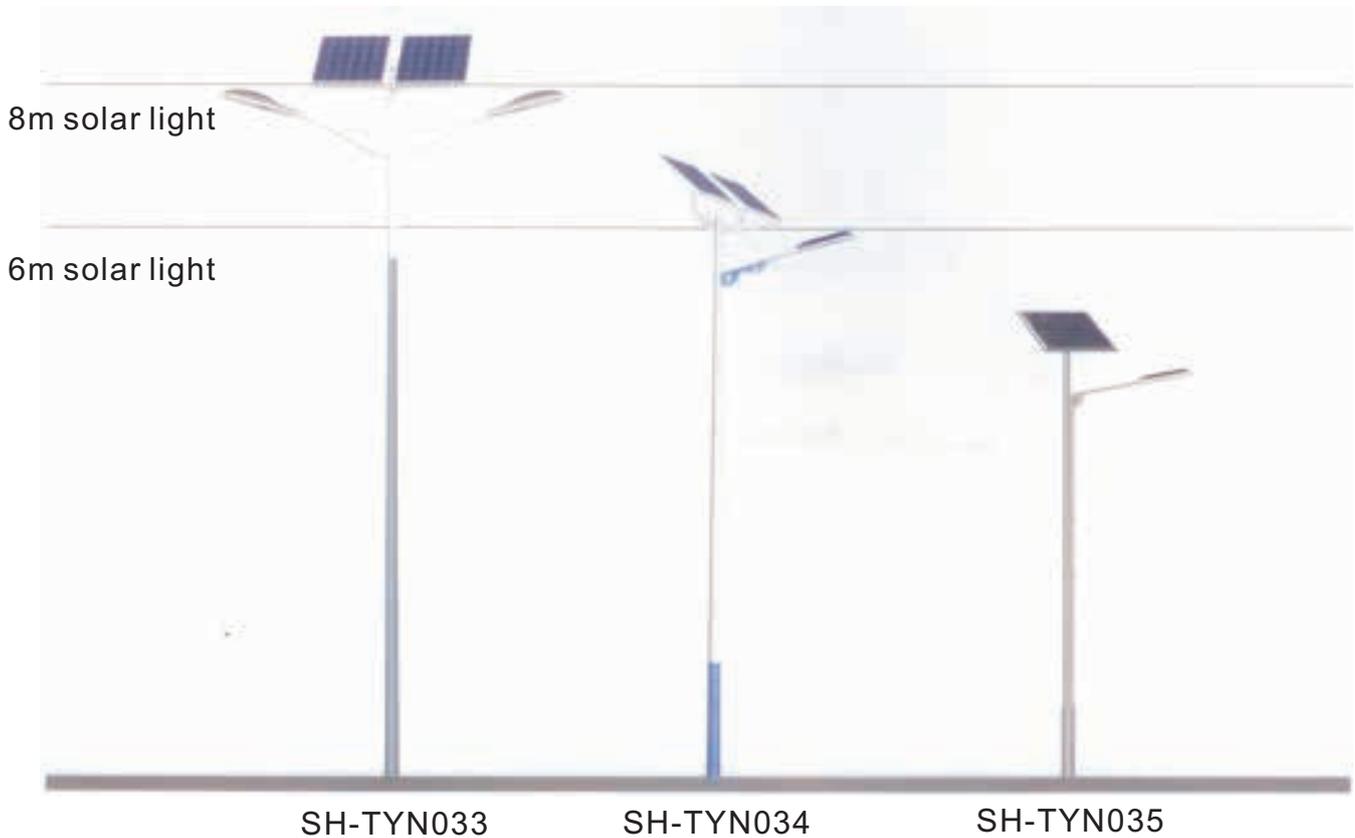
Scope of application: the annual sunshine time is more than 2200 hours.



SH-TYN031



SH-TYN032



8m solar light

6m solar light

SH-TYN033

SH-TYN034

SH-TYN035



SH-TYN033



SH-TYN034



SH-TYN035



SH-TYN033



SH-TYN033



SH-TYN033



SH-TYN033



SH-TYN033



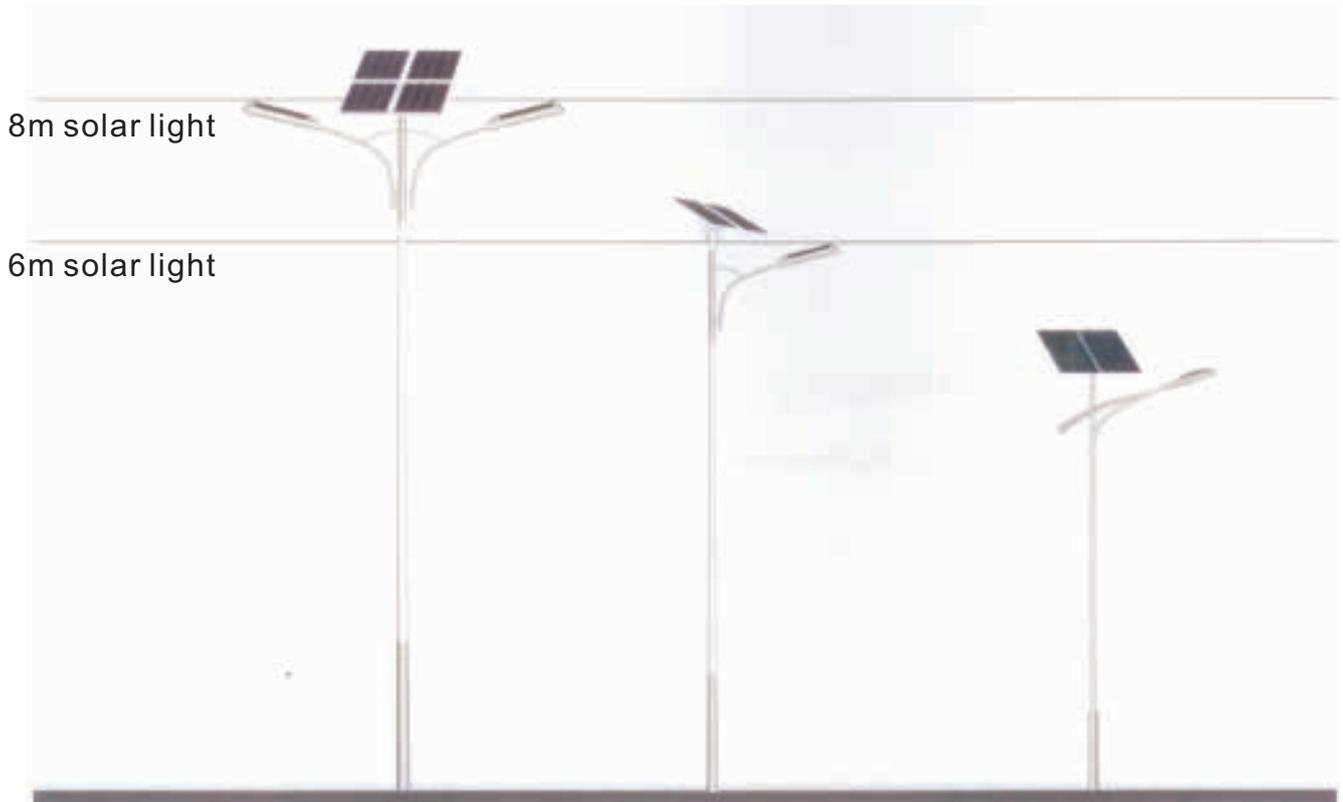
SH-TYN033



SH-TYN045



SH-TYN046



SH-TYN047

SH-TYN048

SH-TYN049



SH-TYN050



SH-TYN051



SH-TYN052



SH-TYN053



SH-TYN054



SH-TYN055



SH-TYN056



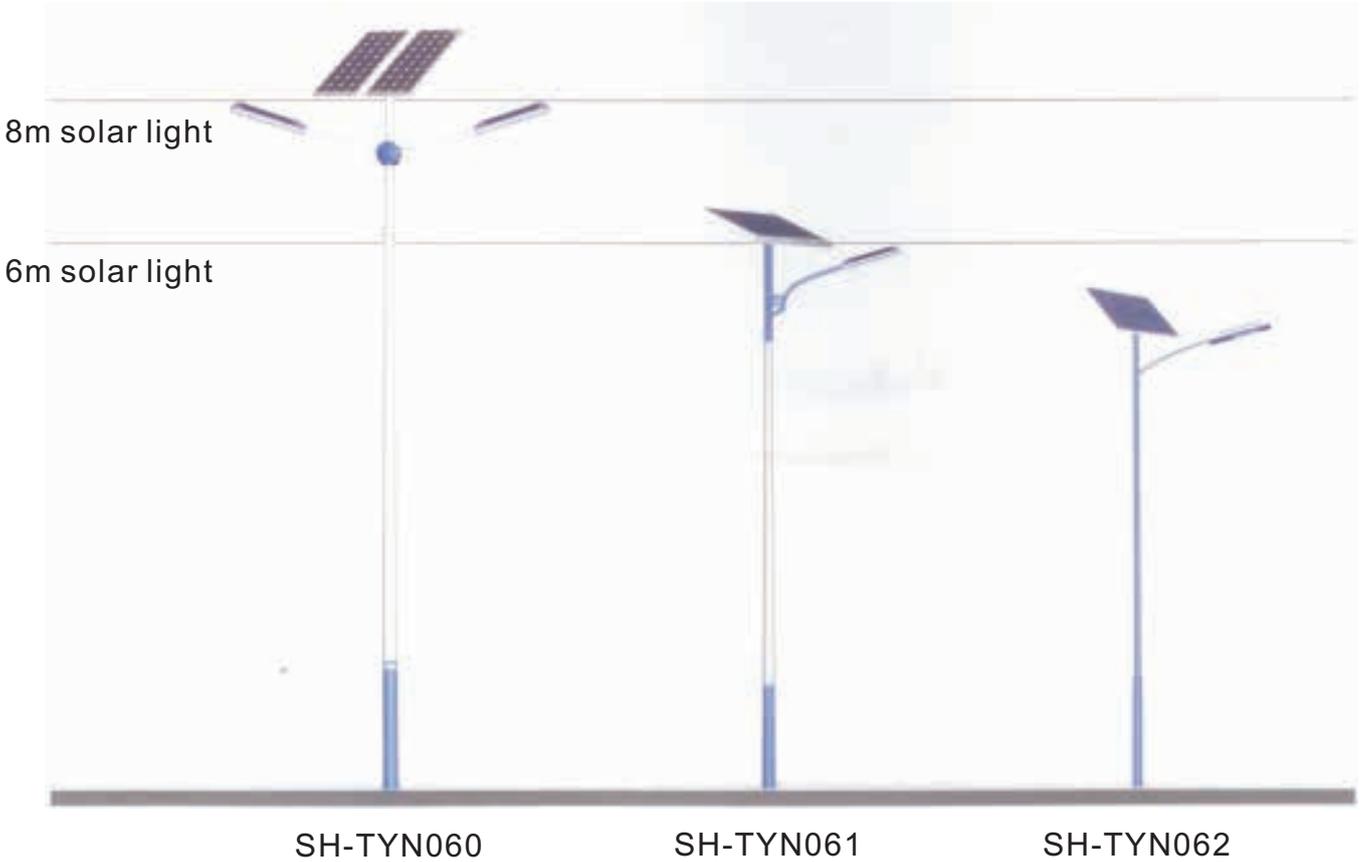
SH-TYN057



SH-TYN058



SH-TYN059





SH-TYN063



SH-TYN064



SH-TYN065



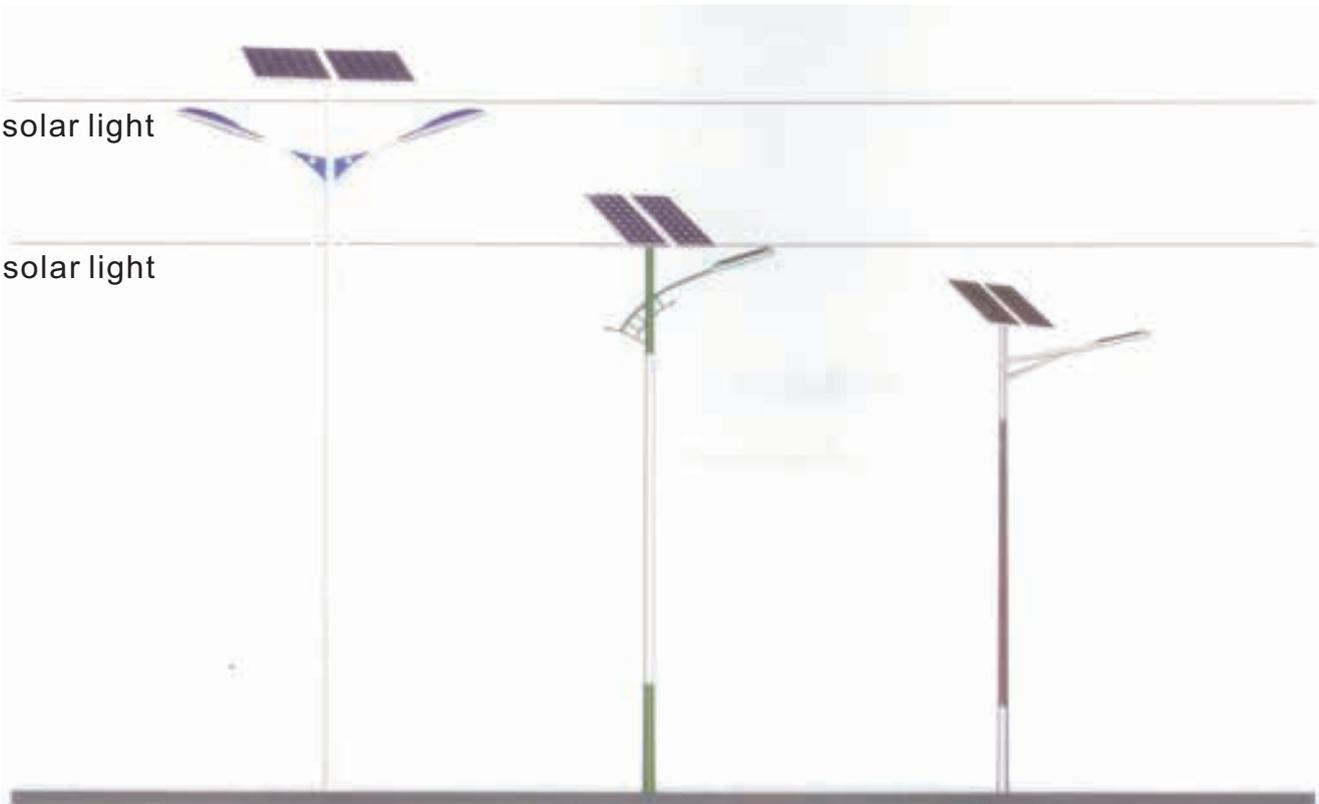
SH-TYN066



SH-TYN067

8m solar light

6m solar light



SH-TYN068

SH-TYN069

SH-TYN070



SH-TYN071



SH-TYN072



SH-TYN073



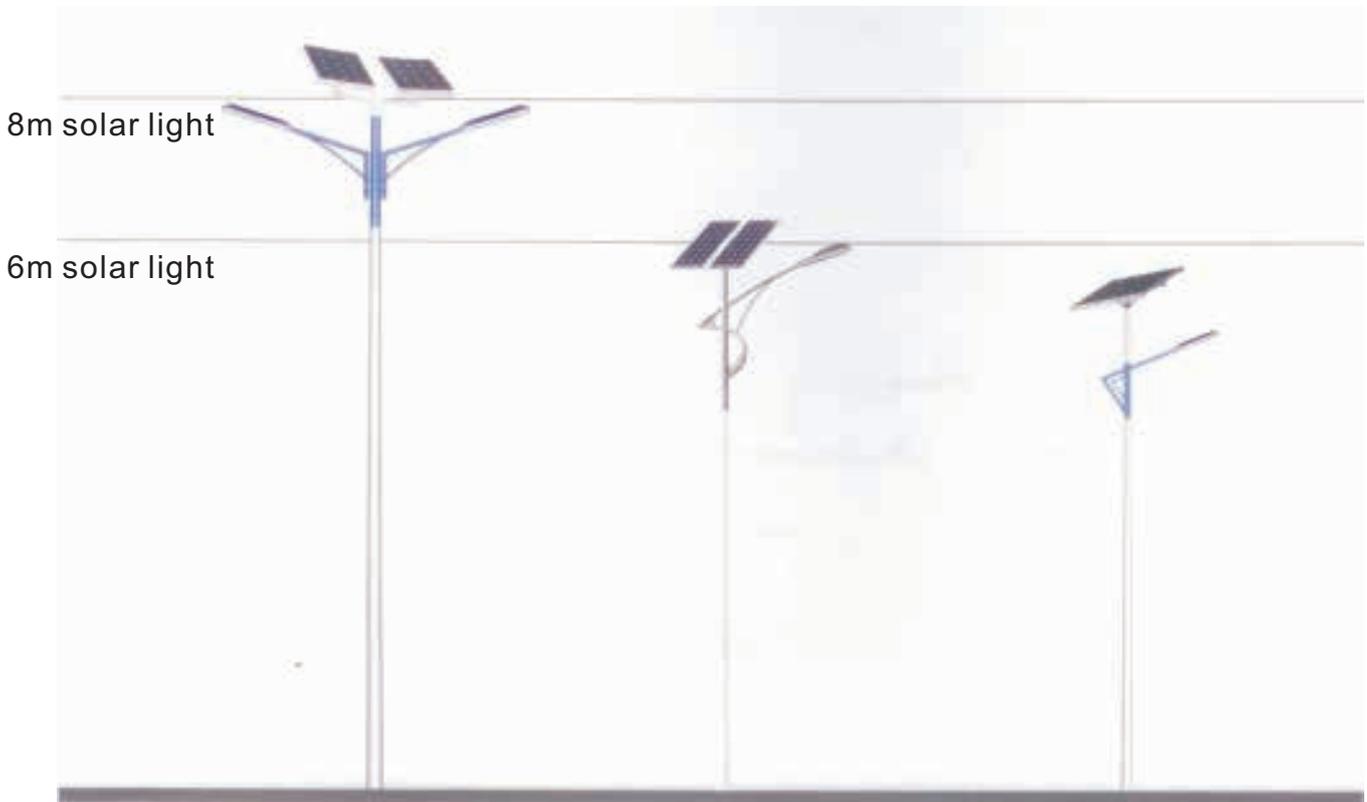
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SH-TYN075



SH-TYN076



SH-TYN077

SH-TYN078

SH-TYN079



SH-TYN080



SH-TYN081



SH-TYN082



SH-TYN083



SH-TYN084



SH-TYN085



SH-TYN086



SH-TYN087



SH-TYN088



SH-TYN089



SH-TYN090



8m solar light

6m solar light

SH-TYN091

SH-TYN092

SH-TYN093



SH-TYN094



SH-TYN095



SH-TYN096



SH-TYN097



SH-TYN098



SH-TYN099



SH-TYN100



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SH-TYN104

SH-TYN105

SH-TYN106



SH-TYN107



SH-TYN108



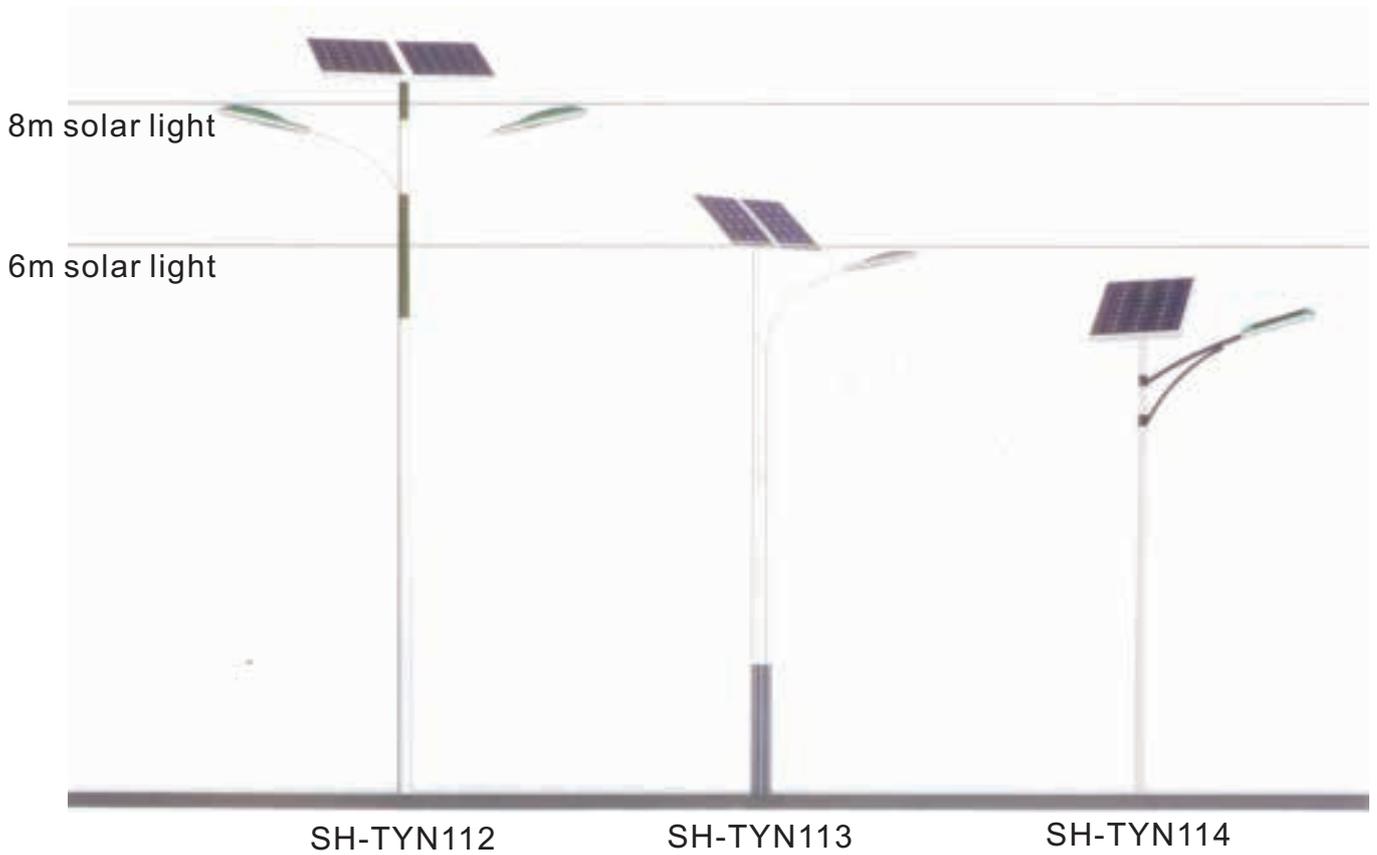
SH-TYN109



SH-TYN110



SH-TYN111



SH-TYN112

SH-TYN113

SH-TYN114



SH-TYN115



SH-TYN116



SH-TYN117



SH-TYN118



SH-TYN119



SH-TYN120



SH-TYN121



SH-TYN122



SH-TYN123



SH-TYN124



SH-TYN125



SH-TYN126



SH-TYN127



SH-TYN128



SH-TYN129



SH-TYN130



SH-TYN131



SH-TYN132



SH-TYN133



SH-TYN134



SH-TYN135



SH-TYN136



SH-TYN137



SH-TYN138



SH-TYN139



SH-TYN140



SH-TYN141



SH-TYN142



SH-TYN0143



SH-TYN144



SH-TYN145



SH-TYN146



SH-TYN147



SH-TYN148



SH-TYN149



SH-TYN150



SH-TYN151



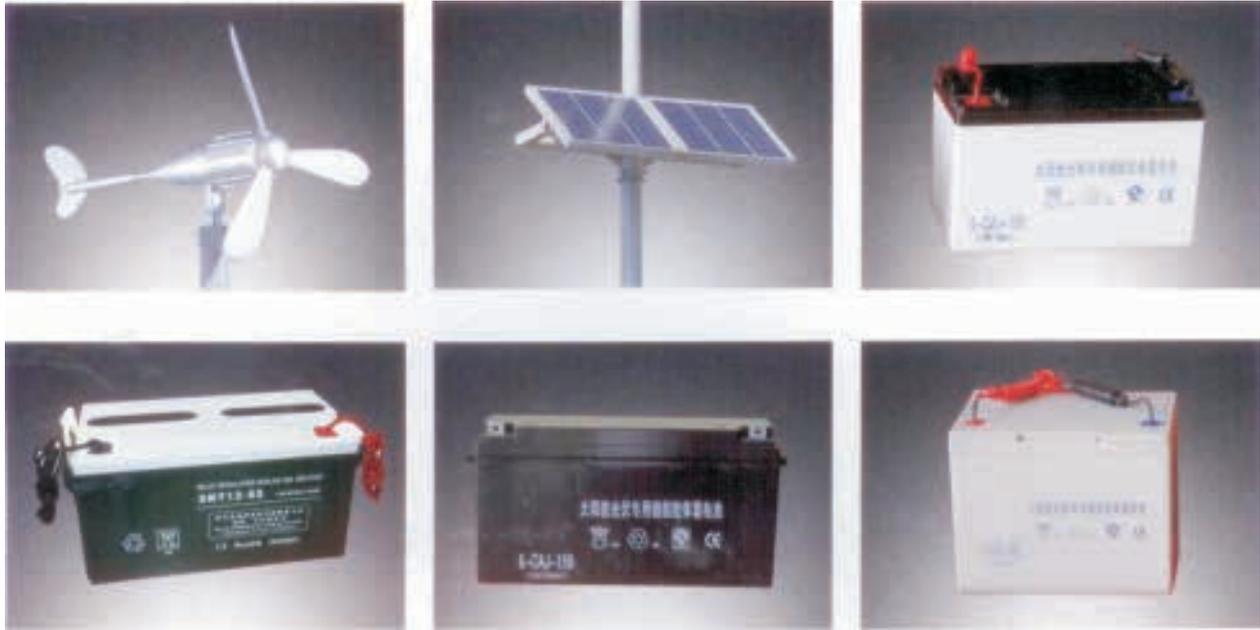
SH-TYN152



SH-TYN153



SH-TYN154



## Solar Energy Lamp

### Wind power generator

To adapt to the high performance of the environment: (1) the weak wind can also generate the optimal design of the three leaf blade; (2) to suppress the noise of the fan operation; (3) strong wind and water Biased protection function.

### Solar panel

The device for converting solar energy into electric energy is composed of many elements. Each unit uses the photoelectric generated by semiconductor P-N to convert light energy into Electric energy.

### Light source

According to the different environment have three sources: (1) low pressure sodium lamp (2) LED (3) energy-saving lamps

### Microcomputer controller

Superior control functions: (1) to prevent overcharge or overdischarge function; (2) time control and light control function; (3) strong wind protecting function

### Battery

Colloid storage battery or full sealed type lead-acid battery, can work 5 days in a row in the no wind, no sun lighting conditions under high performance photovoltaic storage

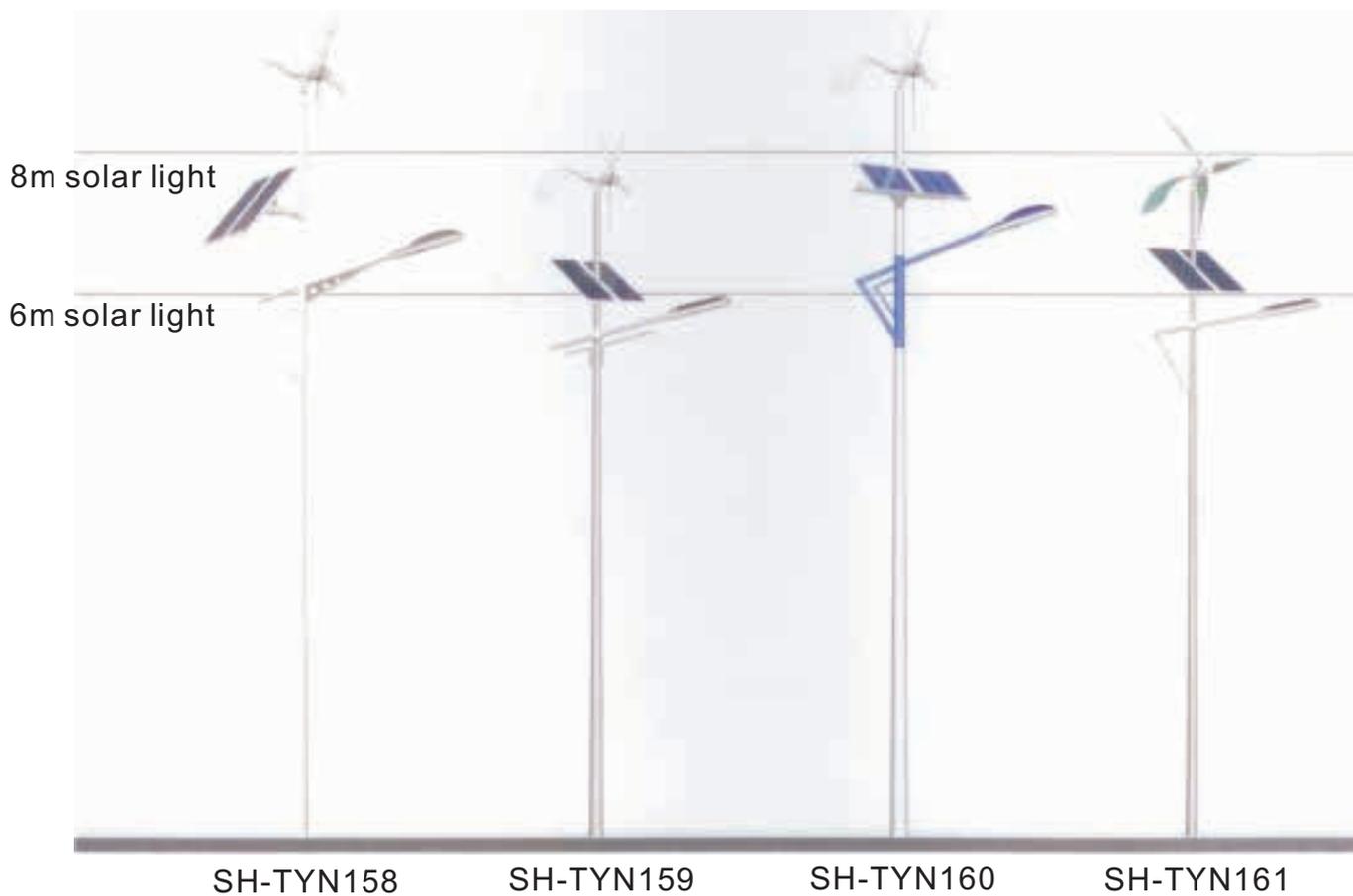




SH-TYN156



SH-TYN157



8m solar light

6m solar light

SH-TYN158

SH-TYN159

SH-TYN160

SH-TYN161



SH-TYN162



SH-TYN0163



SH-TYN164



SH-TYN165

SH-TYN166

SH-TYN167

SH-TYN168

SH-TYN169

## Solar Garden Light

Pole: height 2.5-5m (optional), a full set of hot dip galvanized steel products after plastic powder spray outdoor high-quality steel powder

Adapter light source: low pressure energy saving lamps, ceramic metal halide lamp, LED 5-20W light source (recommended)

Solar panels: 30-60W, the use of high conversion rate of imports of single / polycrystalline solar cell components, power adequacy

Battery: high performance photovoltaic energy storage battery or whole sealed lead-acid battery

Controller: special solar controller using single-chip microcomputer and digital circuit intelligent control, containing optical control, timing, overcharge, put, lightning protection Measure function

Performance: in the case of sufficient power, can be used continuously 6-8 rainy days

Scope of use: the annual sunshine duration is greater than 2200 hours.





SH-TYN174



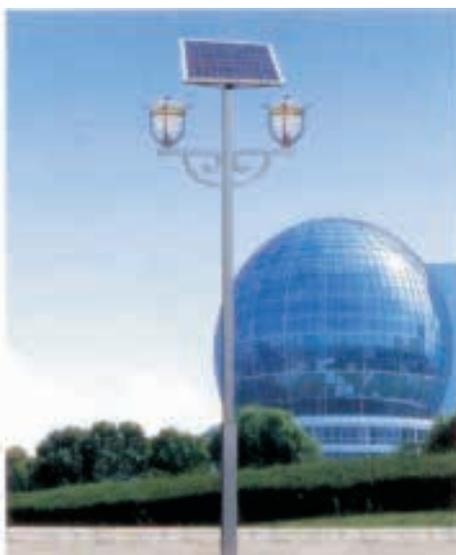
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SH-TYN176



SH-TYN177



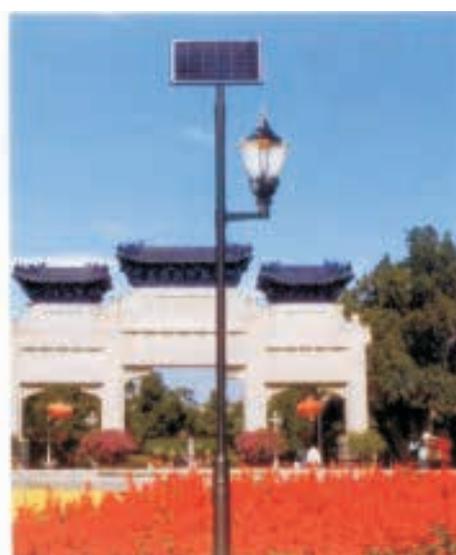
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SH-TYN179



SH-TYN0180



SH-TYN181



SH-TYN182



SH-TYN183



SH-TYN184



SH-TYN185



SH-TYN186



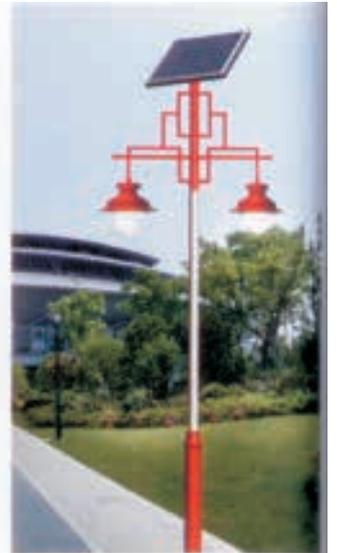
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SH-TYN188



SH-TYN189



SH-TYN190



SH-TYN191



SH-TYN192



SH-TYN193



SH-TYN194



SH-TYN195



SH-TYN196



SH-TYN197



SH-TYN198



SH-TYN199



SH-TYN200



SH-TYN201



SH-TYN202



SH-TYN203



SH-TYN204



SH-TYN205



SH-TYN206

**Solar Energy Lamp**

Material: lamp body is made of aluminum casting, beautiful and durable

Adapter light source: LED/ energy saving lamp

Solar cell: high conversion rate of imported single / polycrystalline silicon solar cells

Battery: fully sealed valve controlled maintenance free lead-acid battery

Controller: micro computer intelligent control

Performance: in the case of sufficient power, can be used continuously 3-5 rainy days

Scope of application: the annual sunshine time is more than 2200 hours.



SH-TYN207



SH-TYN208



SH-TYN209



SH-TYN210



SH-TYN211



SH-TYN212



SH-TYN213



SH-TYN214



SH-TYN215



SH-TYN216



SH-TYN217



SH-TYN218



SH-TYN219



SH-TYN220



SH-TYN221



SH-TYN222



SH-TYN223



SH-TYN224



SH-TYN0225 SH-TYN226

### Solar Traffic Lights



SH-TYN227

The shell is welded by high quality steel plate, and is used for electrostatic spraying of plastic powder. Flash adopts fully sealed structure combined lamp group, each of a plurality of ultra bright LED chip and vacuum coating reflector, white high transmittance lampshade.

The controller composed of a single chip computer is controlled, overcharge over discharge protection function. The flash mode is controlled by the pull off code switch, which can be set by the user.

Warning distance: greater than 500 meters (night)

Solar panels: according to the actual needs of the configuration

Battery: high performance photovoltaic energy storage battery or whole sealed lead-acid battery

Working hours: continuous working 150 hours a day without lighting

Flash mode: 6



SH-TYN228



SH-TYN229



SH-TYN230

## SIHON LED Road Lamp Advantage

High efficiency and energy saving: one thousand hours only a few degrees of electricity (ordinary 60W shopping in the incandescent lamp seventeen hours of electricity consumption 1 kwh, ordinary 10W energy-saving lamps one hundred hours 1 KWH)

Long life: semiconductor chip light-emitting, no filament, no glass bubble, not afraid of vibration, not easy to break, the service life of up to fifty thousand hours (ordinary incandescent lamp life

Life only one thousand hours, ordinary energy-saving lamps use life is only eight thousand hours

Light health: no ultraviolet and infrared rays, no radiation, in the ordinary light.

Green: do not contain mercury and xenon and other harmful elements, beneficial to recovery and utilization, and does not produce electromagnetic interference (ordinary tubes containing elements such as mercury and lead.

Electronic ballast in the lamp can produce electromagnetic interference.

Protect eyesight: DC drive, no stroboscopic (ordinary light is AC drive, it will inevitably produce stroboscopic)

High light efficiency: small heat, 90% of electric energy into visible light (ordinary incandescent lamp 80% electric energy into heat energy, only 20% electric energy into light energy)

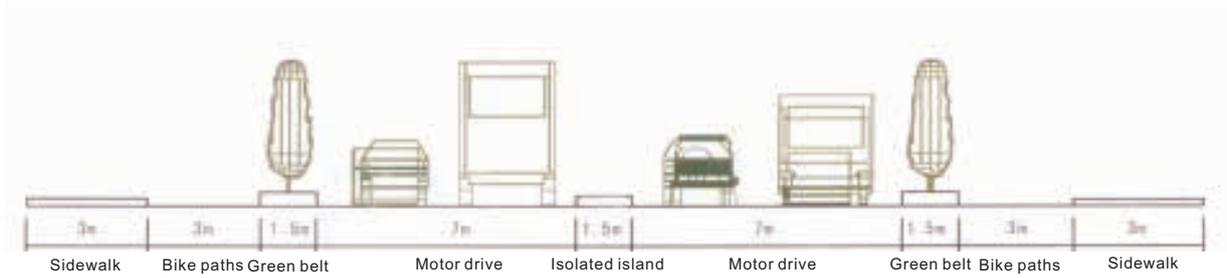
High safety factor: the required voltage, current is small, less heat, no security risks, can be used in mines and other dangerous places

Market potential: low voltage, DC power supply, battery, solar power can be used in remote mountainous areas and outdoor lighting, etc..

## SIHON LED Road Lamp Advantage

Level	Road type	Pavement brightness			Pavement illumination		Glare limit threshold increment (%) maximum initial value	Environment than SR minimum
		The average brightness (cd/m <sup>2</sup> )	Minimum total uniformity	Minimum longitudinal uniformity	Average illumination value	Minimum uniformity		
1	Expressway, trunk roads	1.5/2.0	0.4	0.7	20/30	0.4	10	0.5
2	Secondary roads	0.75/1.0	0.4	0.5	10/15	0.35	10	0.5
3	Access Roads	0.5/0.75	0.4	-	8/10	0.3	10	-

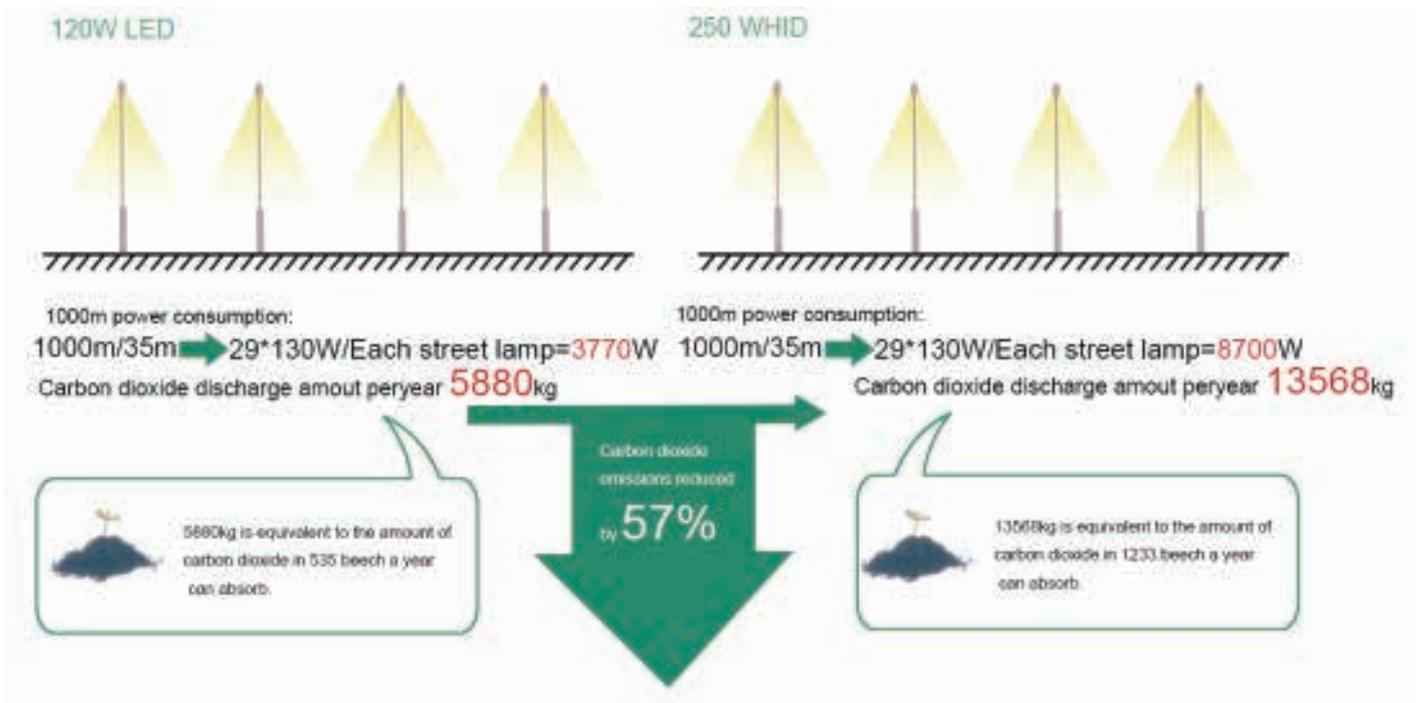
Note: expressway, trunk road containing Yingbin Road, leading to the government agencies and large public buildings on the main road, located in the downtown or central business road



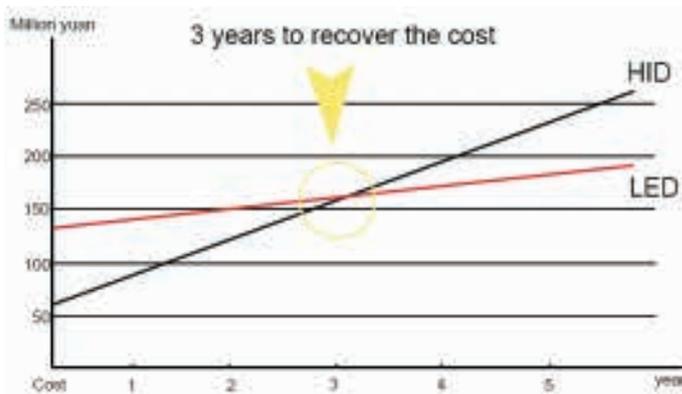
**180WLED Road Lamp And 400W Road Lamps High Pressure Sodium Lamp Performance And Economic Comparison (every 10 hours)**

Category	Analysis project	10M pole	
		400W traditional sodium lamp	180WLED
Technology contrast	Color temperature	2000(Light source)	5500 (white)
	Color rendering	<25	>75
	Anti glare effect	Poor	Good
	Light effect (Lm/w)	100	100
	Total luminous flux (Lm)	40000	18000
	Lamp effect	0.6	0.85
	Utilization coefficient	0.6	0.9
	Exposure to the flux of pavement (Lm)	15000	14000
	The irradiated area ( m <sup>2</sup> )	12*24	12*24
	Average illumination (1x)	30	30
Energy saving analysis	Electric power factor	Adding capacity0.85	>0.95
	Total power consumption (W)	430	195
	Power consumption per day (Kwh)	4.3	1.95
	Annual power consumption (Kwh)	1570	710
	Annual energy consumption Ji	/	860
Conclusion	(save) by 0.8 per degree		688RMB
Conclusion	Save amount by 200 light		137600RMB

## Energy Saving And Emission Reduction And Environmental Protection



### 3 years To Recover The Cost



Light	LED*29	HID*29
Initial	87000	29000
Power	130W	300W
Power Consumption	137605Kw	31755Kw
Electric Power	165126	38106
Life	30000H	10000H

## LED Lamps And Lanterns

### Material and characteristics

Using high power LED light source, long life, energy saving, low luminous decay, green environmental protection

The use of die-casting aluminum lamp body process, the surface electrostatic spray

Heat sink with special processing technology, strong heat

The transparent cover is made of toughened glass with high performance.

High quality silicone rubber sealing pad, high temperature resistance, aging resistance

Anti electric shock protection class I class

Protection level Ip65





SH-LEDDJ01



SH-LEDDJ02



SH-LEDDJ03



SH-LEDDJ04



SH-LEDDJ05



SH-LEDDJ06



SH-LEDDJ07



SH-LEDDJ08



SH-LEDDJ09



SH-LEDDJ10



SH-LEDDJ11



SH-LEDDJ12



SH-LEDDJ13



SH-LEDDJ14



SH-LEDDJ15



SH-LEDDJ16



SH-LEDDJ17



SH-LEDDJ18



SH-LEDDJ19



SH-LEDDJ20



SH-LEDDJ21



SH-LEDDJ22



SH-LEDDJ23



SH-LEDDJ24



SH-LEDDJ25



SH-LEDDJ26



SH-LEDDJ27



SH-LEDDJ28



SH-LEDDJ29



SH-LEDDJ30



SH-LEDDJ31



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SH-LEDDJ37



SH-LEDDJ38



SH-LEDDJ39



SH-LEDDJ40



SH-LEDDJ41



SH-LEDDJ42



SH-LEDDJ43



SH-LEDDJ44



SH-LEDDJ45



SH-LEDDJ46



SH-LEDDJ47



SH-LEDDJ48



SH-LEDDJ49



SH-LEDDJ50



SH-LEDDJ51



SH-LEDDJ52



SH-LEDDJ53



SH-LEDDJ54



SH-LEDDJ55



SH-LEDDJ56



SH-LEDDJ57



SH-LEDDJ58



SH-LEDDJ59



SH-LEDDJ60



SH-LEDDJ61



SH-LEDDJ62



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SH-LEDDJ67



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SH-LEDDJ69



SH-LEDDJ70



SH-LEDDJ71

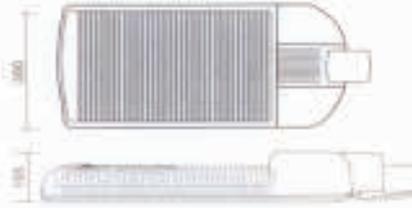


SH-LEDDJ72

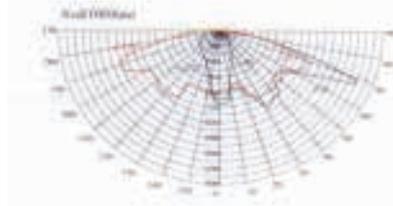


**80W**  
 Light source:LED80\*1W  
 Applicable height:6-12m  
 Working voltage:AC(85-265)/Frequency  
 (50-60Hz)  
 Power factor:>0.9  
 LED light effect:≥100Lm/W  
 Initial flux:126Lm  
 Protection level:IP65  
 Color temperature:5500K-6500K  
 Color rendering:Ra≥75%  
 Working environment temperature:  
 -40°C~+50°C

**Structure Size:**



**Light Distribution Curve:**

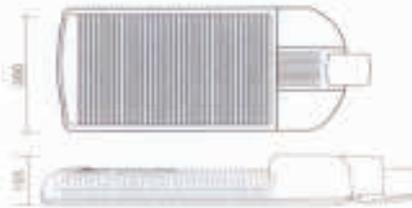


SH-LEDDL01

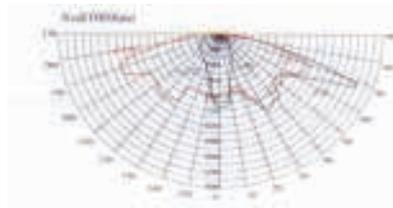


**80W**  
 Light source:LED80\*1W  
 Applicable height:6-12m  
 Working voltage:AC(85-265)/Frequency  
 (50-60Hz)  
 Power factor:>0.9  
 LED light effect:≥100Lm/W  
 Initial flux:126Lm  
 Protection level:IP65  
 Color temperature:5500K-6500K  
 Color rendering:Ra≥75%  
 Working environment temperature:  
 -40°C~+50°C

**Structure Size:**



**Light Distribution Curve:**

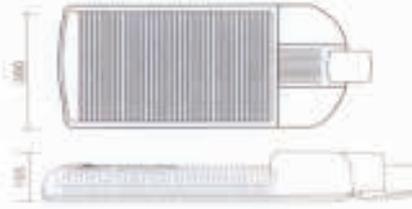


SH-LEDDL02

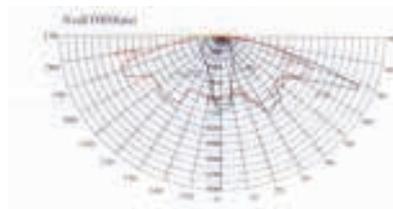


**80W**  
 Light source:LED80\*1W  
 Applicable height:6-12m  
 Working voltage:AC(85-265)/Frequency  
 (50-60Hz)  
 Power factor:>0.9  
 LED light effect:≥100Lm/W  
 Initial flux:126Lm  
 Protection level:IP65  
 Color temperature:5500K-6500K  
 Color rendering:Ra≥75%  
 Working environment temperature:  
 -40°C~+50°C

**Structure Size:**



**Light Distribution Curve:**



SH-LEDDL03

**80W**

Light source:LED80\*1W

Applicable height:6-12m

Working voltage:AC(85-265)/Frequency  
(50-60Hz)

Power factor:&gt;0.9

LED light effect: $\geq 100\text{Lm/W}$ 

Initial flux:126Lm

Protection level:IP65

Color temperature:5500K-6500K

Color rendering:Ra $\geq 75\%$ Working environment temperature:  
-40°C~+50°C**80W**

Light source:LED80\*1W

Applicable height:6-12m

Working voltage:AC(85-265)/Frequency  
(50-60Hz)

Power factor:&gt;0.9

LED light effect: $\geq 100\text{Lm/W}$ 

Initial flux:126Lm

Protection level:IP65

Color temperature:5500K-6500K

Color rendering:Ra $\geq 75\%$ Working environment temperature:  
-40°C~+50°C**80W**

Light source:LED80\*1W

Applicable height:6-12m

Working voltage:AC(85-265)/Frequency  
(50-60Hz)

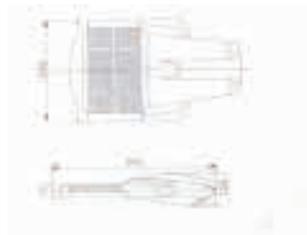
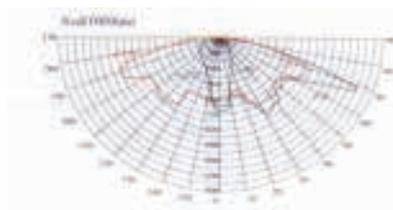
Power factor:&gt;0.9

LED light effect: $\geq 100\text{Lm/W}$ 

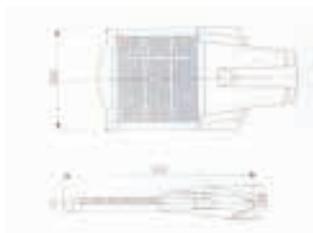
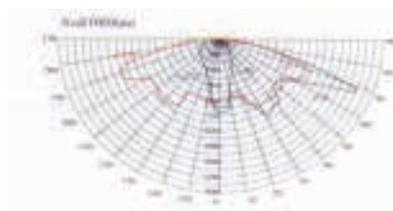
Initial flux:126Lm

Protection level:IP65

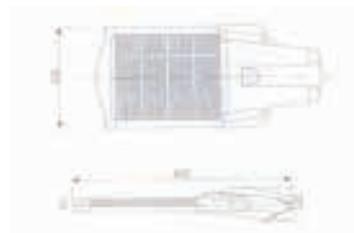
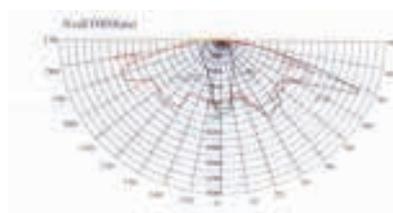
Color temperature:5500K-6500K

Color rendering:Ra $\geq 75\%$ Working environment temperature:  
-40°C~+50°C**Structure Size:****Light Distribution Curve:**

SH-LEDDL04

**Structure Size:****Light Distribution Curve:**

SH-LEDDL05

**Structure Size:****Light Distribution Curve:**

SH-LEDDL06



**80W**

Light source:LED80\*1W

Applicable height:6-12m

Working voltage:AC(85-265)/Frequency (50-60Hz)

Power factor:>0.9

LED light effect: $\geq 100\text{Lm/W}$

Initial flux:126Lm

Protection level:IP65

Color temperature:5500K-6500K

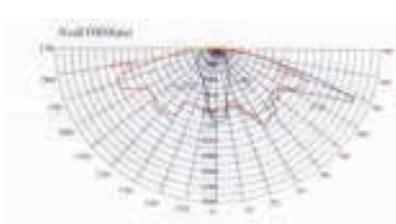
Color rendering:Ra $\geq 75\%$

Working environment temperature:  
-40°C~+50°C

Structure Size:



Light Distribution Curve:



SH-LEDDL07



**80W**

Light source:LED80\*1W

Applicable height:6-12m

Working voltage:AC(85-265)/Frequency (50-60Hz)

Power factor:>0.9

LED light effect: $\geq 100\text{Lm/W}$

Initial flux:126Lm

Protection level:IP65

Color temperature:5500K-6500K

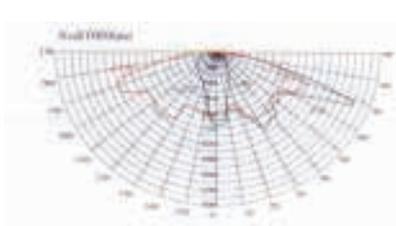
Color rendering:Ra $\geq 75\%$

Working environment temperature:  
-40°C~+50°C

Structure Size:



Light Distribution Curve:



SH-LEDDL08



**80W**

Light source:LED80\*1W

Applicable height:6-12m

Working voltage:AC(85-265)/Frequency (50-60Hz)

Power factor:>0.9

LED light effect: $\geq 100\text{Lm/W}$

Initial flux:126Lm

Protection level:IP65

Color temperature:5500K-6500K

Color rendering:Ra $\geq 75\%$

Working environment temperature:  
-40°C~+50°C

Structure Size:



Light Distribution Curve:



SH-LEDDL09

**80W**

Light source:LED80\*1W

Applicable height:6-12m

Working voltage:AC(85-265)/Frequency  
(50-60Hz)

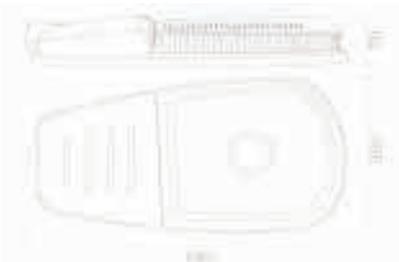
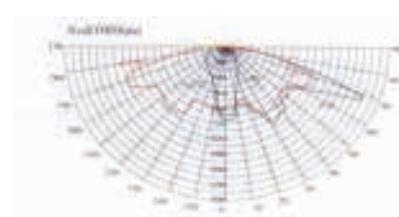
Power factor:&gt;0.9

LED light effect: $\geq 100\text{Lm/W}$ 

Initial flux:126Lm

Protection level:IP65

Color temperature:5500K-6500K

Color rendering:Ra $\geq 75\%$ Working environment temperature:  
-40°C~+50°C**Structure Size:****Light Distribution Curve:**

SH-LEDDL10

**80W**

Light source:LED80\*1W

Applicable height:6-12m

Working voltage:AC(85-265)/Frequency  
(50-60Hz)

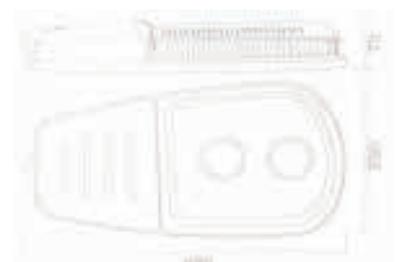
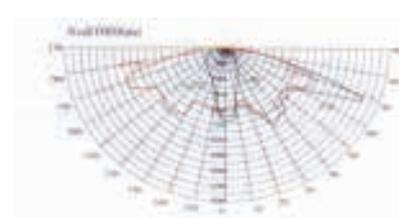
Power factor:&gt;0.9

LED light effect: $\geq 100\text{Lm/W}$ 

Initial flux:126Lm

Protection level:IP65

Color temperature:5500K-6500K

Color rendering:Ra $\geq 75\%$ Working environment temperature:  
-40°C~+50°C**Structure Size:****Light Distribution Curve:**

SH-LEDDL11

**80W**

Light source:LED80\*1W

Applicable height:6-12m

Working voltage:AC(85-265)/Frequency  
(50-60Hz)

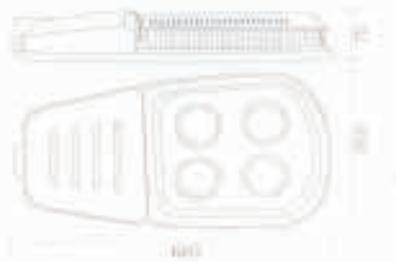
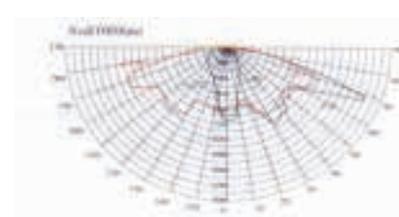
Power factor:&gt;0.9

LED light effect: $\geq 100\text{Lm/W}$ 

Initial flux:126Lm

Protection level:IP65

Color temperature:5500K-6500K

Color rendering:Ra $\geq 75\%$ Working environment temperature:  
-40°C~+50°C**Structure Size:****Light Sistribution Curve:**

SH-LEDDL12



**80W**

Light source: LED80\*1W

Applicable height: 6-12m

Working voltage: AC(85-265)/Frequency (50-60Hz)

Power factor: >0.9

LED light effect: ≥100Lm/W

Initial flux: 126Lm

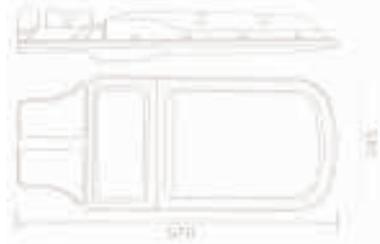
Protection level: IP65

Color temperature: 5500K-6500K

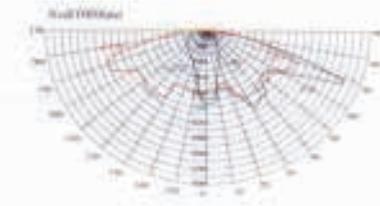
Color rendering: Ra ≥75%

Working environment temperature: -40°C~+50°C

**Structure Size:**



**Light Distribution Curve:**



SH-LEDDL13



**80W**

Light source: LED80\*1W

Applicable height: 6-12m

Working voltage: AC(85-265)/Frequency (50-60Hz)

Power factor: >0.9

LED light effect: ≥100Lm/W

Initial flux: 126Lm

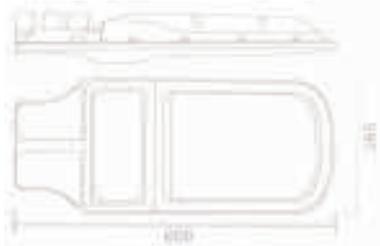
Protection level: IP65

Color temperature: 5500K-6500K

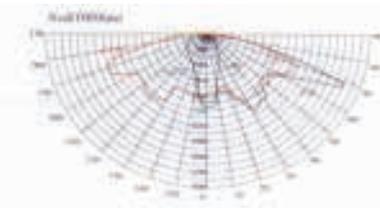
Color rendering: Ra ≥75%

Working environment temperature: -40°C~+50°C

**Structure Size:**



**Light Distribution Curve:**



SH-LEDDL14



**80W**

Light source: LED80\*1W

Applicable height: 6-12m

Working voltage: AC(85-265)/Frequency (50-60Hz)

Power factor: >0.9

LED light effect: ≥100Lm/W

Initial flux: 126Lm

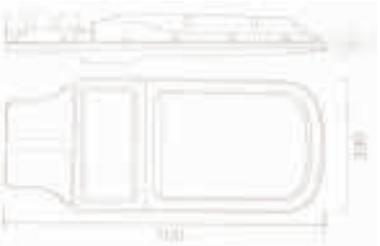
Protection level: IP65

Color temperature: 5500K-6500K

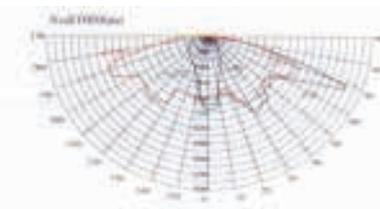
Color rendering: Ra ≥75%

Working environment temperature: -40°C~+50°C

**Structure Size:**



**Light Distribution Curve:**



SH-LEDDL15

**80W**

Light source:LED80\*1W

Applicable height:6-12m

Working voltage:AC(85-265)/Frequency  
(50-60Hz)

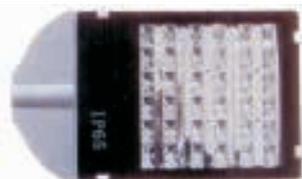
Power factor:&gt;0.9

LED light effect: $\geq 100\text{Lm/W}$ 

Initial flux:126Lm

Protection level:IP65

Color temperature:5500K-6500K

Color rendering:Ra $\geq 75\%$ Working environment temperature:  
-40°C~+50°C**80W**

Light source:LED80\*1W

Applicable height:6-12m

Working voltage:AC(85-265)/Frequency  
(50-60Hz)

Power factor:&gt;0.9

LED light effect: $\geq 100\text{Lm/W}$ 

Initial flux:126Lm

Protection level:IP65

Color temperature:5500K-6500K

Color rendering:Ra $\geq 75\%$ Working environment temperature:  
-40°C~+50°C**80W**

Light source:LED80\*1W

Applicable height:6-12m

Working voltage:AC(85-265)/Frequency  
(50-60Hz)

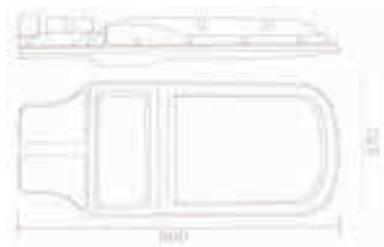
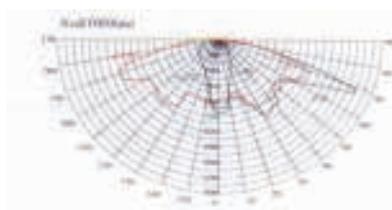
Power factor:&gt;0.9

LED light effect: $\geq 100\text{Lm/W}$ 

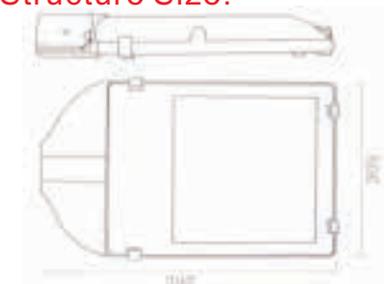
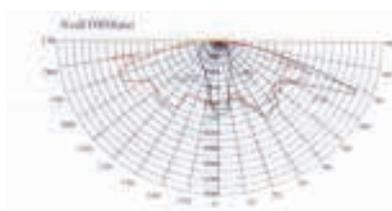
Initial flux:126Lm

Protection level:IP65

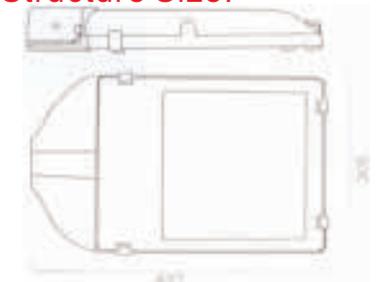
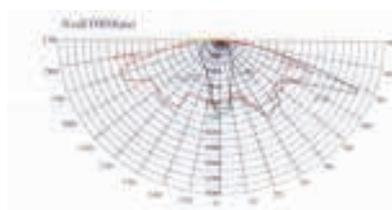
Color temperature:5500K-6500K

Color rendering:Ra $\geq 75\%$ Working environment temperature:  
-40°C~+50°C**Structure Size:****Light distribution Curve:**

SH-LEDDLD16

**Structure Size:****Light distribution Curve:**

SH-LEDDLD17

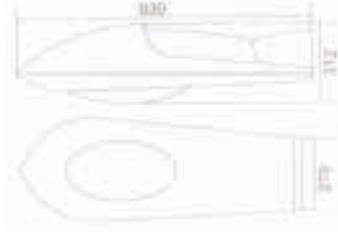
**Structure Size:****Light Distribution Curve:**

SH-LEDDLD18

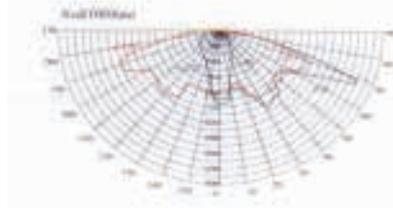


**80W**  
 Light source:LED80\*1W  
 Applicable height:6-12m  
 Working voltage:AC(85-265)/Frequency  
 (50-60Hz)  
 Power factor:>0.9  
 LED light effect:≥100Lm/W  
 Initial flux:126Lm  
 Protection level:IP65  
 Color temperature:5500K-6500K  
 Color rendering:Ra≥75%  
 Working environment temperature:  
 -40°C~+50°C

**Structure Size:**



**Light Distribution Curve:**



SH-LEDDL19

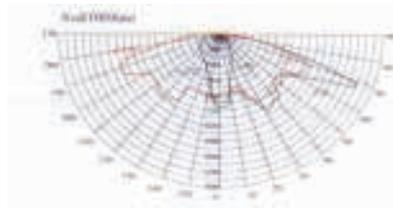


**80W**  
 Light source:LED80\*1W  
 Applicable height:6-12m  
 Working voltage:AC(85-265)/Frequency  
 (50-60Hz)  
 Power factor:>0.9  
 LED light effect:≥100Lm/W  
 Initial flux:126Lm  
 Protection level:IP65  
 Color temperature:5500K-6500K  
 Color rendering:Ra≥75%  
 Working environment temperature:  
 -40°C~+50°C

**Structure Size:**



**Light Distribution Curve:**



SH-LEDDL20

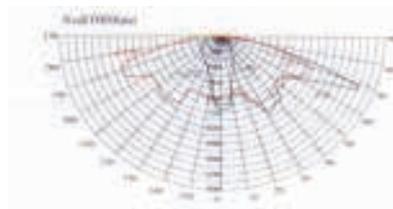


**80W**  
 Light source:LED80\*1W  
 Applicable height:6-12m  
 Working voltage:AC(85-265)/Frequency  
 (50-60Hz)  
 Power factor:>0.9  
 LED light effect:≥100Lm/W  
 Initial flux:126Lm  
 Protection level:IP65  
 Color temperature:5500K-6500K  
 Color rendering:Ra≥75%  
 Working environment temperature:  
 -40°C~+50°C

**Structure Size:**



**Light Distribution Curve:**



SH-LEDDL21



**80W**

Light source:LED80\*1W

Applicable height:6-12m

Working voltage:AC(85-265)/Frequency (50-60Hz)

Power factor:>0.9

LED light effect:≥100Lm/W

Initial flux:126Lm

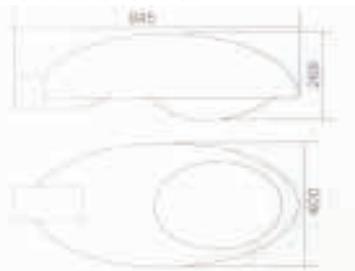
Protection level:IP65

Color temperature:5500K-6500K

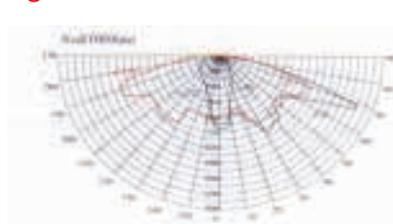
Color rendering:Ra≥75%

Working environment temperature: -40°C~+50°C

**Structure Size:**



**Light Distribution Curve:**



SH-LEDDL22



**80W**

Light source:LED80\*1W

Applicable height:6-12m

Working voltage:AC(85-265)/Frequency (50-60Hz)

Power factor:>0.9

LED light effect:≥100Lm/W

Initial flux:126Lm

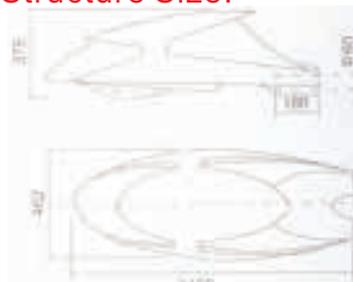
Protection level:IP65

Color temperature:5500K-6500K

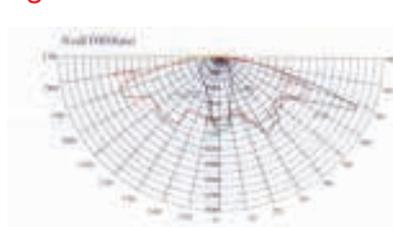
Color rendering:Ra≥75%

Working environment temperature: -40°C~+50°C

**Structure Size:**



**Light Distribution Curve:**



SH-LEDDL23



**80W**

Light source:LED80\*1W

Applicable height:6-12m

Working voltage:AC(85-265)/Frequency (50-60Hz)

Power factor:>0.9

LED light effect:≥100Lm/W

Initial flux:126Lm

Protection level:IP65

Color temperature:5500K-6500K

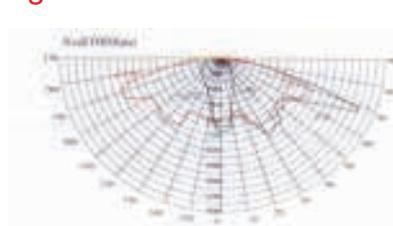
Color rendering:Ra≥75%

Working environment temperature: -40°C~+50°C

**Structure Size:**



**Light Distribution Curve:**



SH-LEDDL24



**80W**

Light source: LED80\*1W

Applicable height: 6-12m

Working voltage: AC(85-265)/Frequency (50-60Hz)

Power factor: >0.9

LED light effect:  $\geq 100\text{Lm/W}$

Initial flux: 126Lm

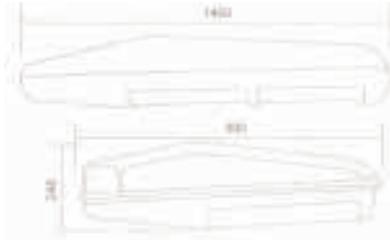
Protection level: IP65

Color temperature: 5500K-6500K

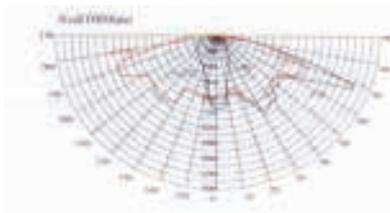
Color rendering:  $R_a \geq 75\%$

Working environment temperature:  $-40^\circ\text{C} \sim +50^\circ\text{C}$

**Structure Size:**



**Light Distribution Curve:**



SH-LEDDL25



**80W**

Light source: LED80\*1W

Applicable height: 6-12m

Working voltage: AC(85-265)/Frequency (50-60Hz)

Power factor: >0.9

LED light effect:  $\geq 100\text{Lm/W}$

Initial flux: 126Lm

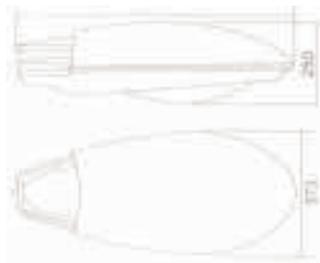
Protection level: IP65

Color temperature: 5500K-6500K

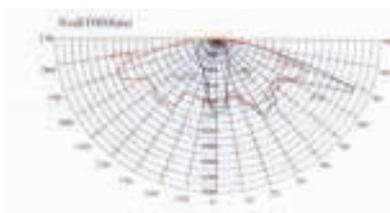
Color rendering:  $R_a \geq 75\%$

Working environment temperature:  $-40^\circ\text{C} \sim +50^\circ\text{C}$

**Structure Size:**



**Light Distribution Curve:**



SH-LEDDL26



**80W**

Light source: LED80\*1W

Applicable height: 6-12m

Working voltage: AC(85-265)/Frequency (50-60Hz)

Power factor: >0.9

LED light effect:  $\geq 100\text{Lm/W}$

Initial flux: 126Lm

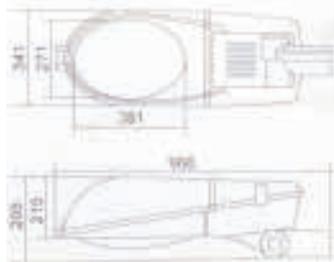
Protection level: IP65

Color temperature: 5500K-6500K

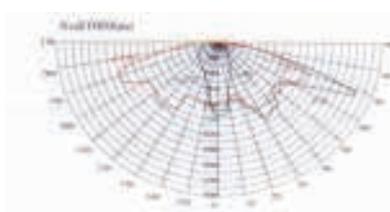
Color rendering:  $R_a \geq 75\%$

Working environment temperature:  $-40^\circ\text{C} \sim +50^\circ\text{C}$

**Structure Size:**



**Light Distribution Curve:**



SH-LEDDL27



**80W**

Light source:LED80\*1W

Applicable height:6-12m

Working voltage:AC(85-265)/Frequency (50-60Hz)

Power factor:>0.9

LED light effect:≥100Lm/W

Initial flux:126Lm

Protection level:IP65

Color temperature:5500K-6500K

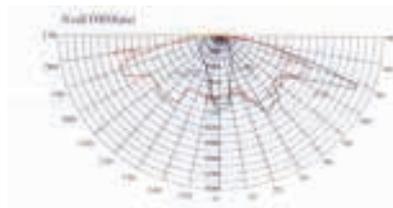
Color rendering:Ra≥75%

Working environment temperature: -40°C~+50°C

**Structure Size:**



**Light Distribution Curve:**



SH-LEDDL28



**80W**

Light source:LED80\*1W

Applicable height:6-12m

Working voltage:AC(85-265)/Frequency (50-60Hz)

Power factor:>0.9

LED light effect:≥100Lm/W

Initial flux:126Lm

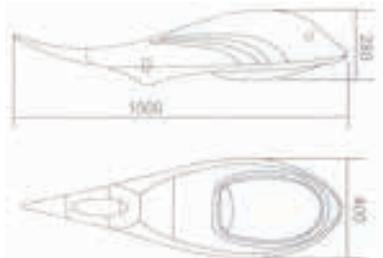
Protection level:IP65

Color temperature:5500K-6500K

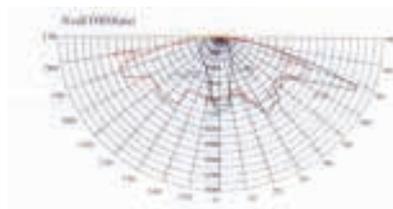
Color rendering:Ra≥75%

Working environment temperature: -40°C~+50°C

**Structure Size:**



**Light Distribution Curve:**



SH-LEDDL29



**80W**

Light source:LED80\*1W

Applicable height:6-12m

Working voltage:AC(85-265)/Frequency (50-60Hz)

Power factor:>0.9

LED light effect:≥100Lm/W

Initial flux:126Lm

Protection level:IP65

Color temperature:5500K-6500K

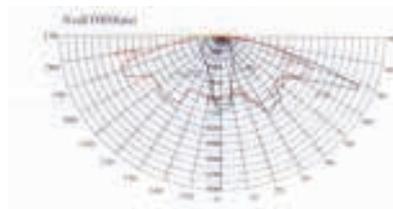
Color rendering:Ra≥75%

Working environment temperature: -40°C~+50°C

**Structure Size:**



**Light Distribution Curve:**



SH-LEDDL30



**80W**

Light source:LED80\*1W

Applicable height:6-12m

Working voltage:AC(85-265)/Frequency (50-60Hz)

Power factor:>0.9

LED light effect: $\geq 100\text{Lm/W}$

Initial flux:126Lm

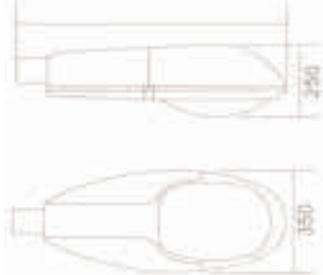
Protection level:IP65

Color temperature:5500K-6500K

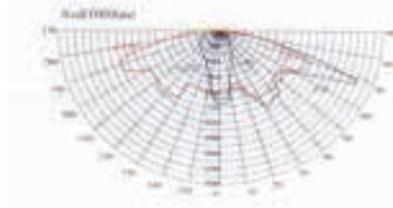
Color rendering:Ra $\geq 75\%$

Working environment temperature:  
-40°C~+50°C

Structure Size:



Light Distribution Curve:



SH-LEDDL31



**80W**

Light source:LED80\*1W

Applicable height:6-12m

Working voltage:AC(85-265)/Frequency (50-60Hz)

Power factor:>0.9

LED light effect: $\geq 100\text{Lm/W}$

Initial flux:126Lm

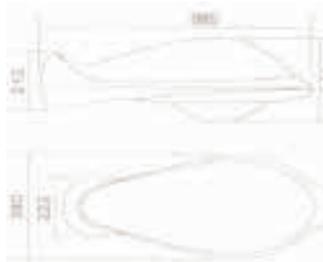
Protection level:IP65

Color temperature:5500K-6500K

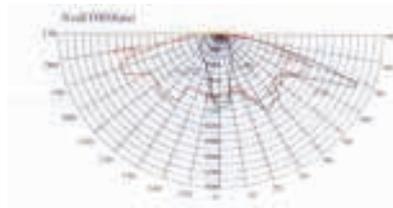
Color rendering:Ra $\geq 75\%$

Working environment temperature:  
-40°C~+50°C

Structure Size:



Light Distribution Curve:



SH-LEDDL32



**80W**

Light source:LED80\*1W

Applicable height:6-12m

Working voltage:AC(85-265)/Frequency (50-60Hz)

Power factor:>0.9

LED light effect: $\geq 100\text{Lm/W}$

Initial flux:126Lm

Protection level:IP65

Color temperature:5500K-6500K

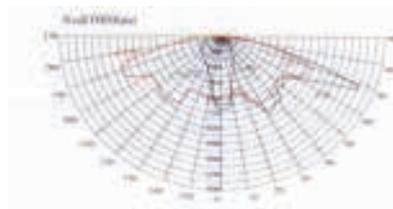
Color rendering:Ra $\geq 75\%$

Working environment temperature:  
-40°C~+50°C

Structure Size:



Light Distribution Curve:



SH-LEDDL33



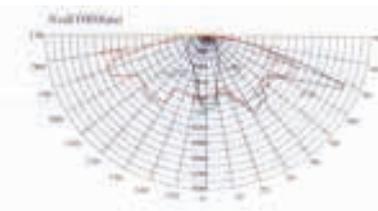
**80W**

Light source:LED80\*1W  
 Applicable height:6-12m  
 Working voltage:AC(85-265)/Frequency  
 (50-60Hz)  
 Power factor:>0.9  
 LED light effect: $\geq 100\text{Lm/W}$   
 Initial flux:126Lm  
 Protection level:IP65  
 Color temperature:5500K-6500K  
 Color rendering:Ra $\geq 75\%$   
 Working environment temperature:  
 -40°C~+50°C

Structure Size:



Light Distribution Curve:



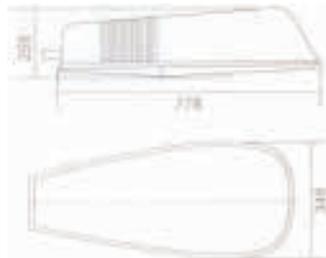
SH-LEDDL34



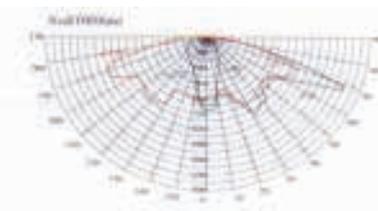
**80W**

Light source:LED80\*1W  
 Applicable height:6-12m  
 Working voltage:AC(85-265)/Frequency  
 (50-60Hz)  
 Power factor:>0.9  
 LED light effect: $\geq 100\text{Lm/W}$   
 Initial flux:126Lm  
 Protection level:IP65  
 Color temperature:5500K-6500K  
 Color rendering:Ra $\geq 75\%$   
 Working environment temperature:  
 -40°C~+50°C

Structure Size:



Light Distribution Curve:



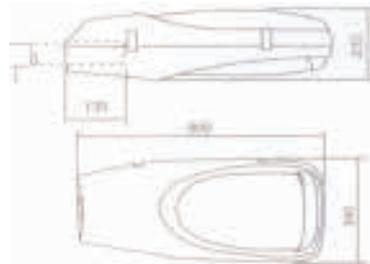
SH-LEDDL35



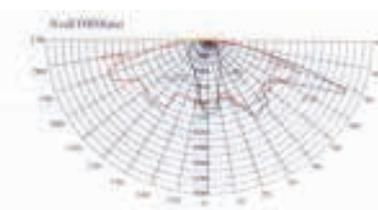
**80W**

Light source:LED80\*1W  
 Applicable height:6-12m  
 Working voltage:AC(85-265)/Frequency  
 (50-60Hz)  
 Power factor:>0.9  
 LED light effect: $\geq 100\text{Lm/W}$   
 Initial flux:126Lm  
 Protection level:IP65  
 Color temperature:5500K-6500K  
 Color rendering:Ra $\geq 75\%$   
 Working environment temperature:  
 -40°C~+50°C

Structure Size:



Light Distribution Curve:



SH-LEDDL36



**80W**

Light source:LED80\*1W

Applicable height:6-12m

Working voltage:AC(85-265)/Frequency (50-60Hz)

Power factor:>0.9

LED light effect:≥100Lm/W

Initial flux:126Lm

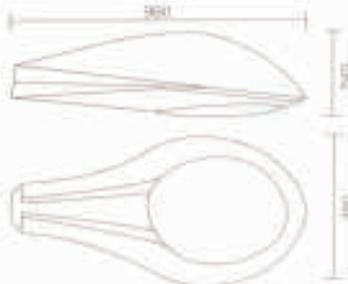
Protection level:IP65

Color temperature:5500K-6500K

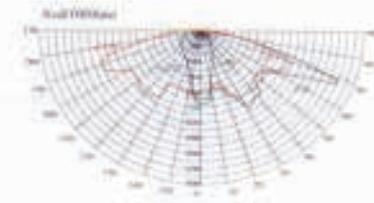
Color rendering:Ra≥75%

Working environment temperature: -40°C~+50°C

**Structure Size:**



**Light Distribution Curve:**



SH-LEDDLD37



**80W**

Light source:LED80\*1W

Applicable height:6-12m

Working voltage:AC(85-265)/Frequency (50-60Hz)

Power factor:>0.9

LED light effect:≥100Lm/W

Initial flux:126Lm

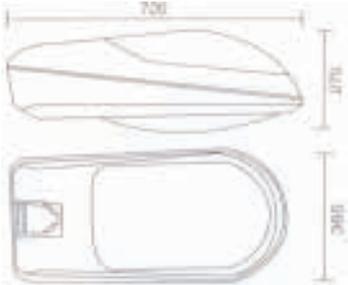
Protection level:IP65

Color temperature:5500K-6500K

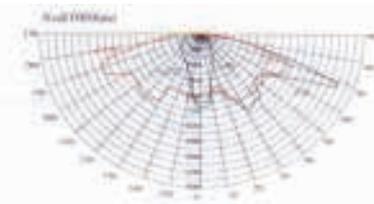
Color rendering:Ra≥75%

Working environment temperature: -40°C~+50°C

**Structure Size:**



**Light Distribution Curve:**



SH-LEDDLD38



**80W**

Light source:LED80\*1W

Applicable height:6-12m

Working voltage:AC(85-265)/Frequency (50-60Hz)

Power factor:>0.9

LED light effect:≥100Lm/W

Initial flux:126Lm

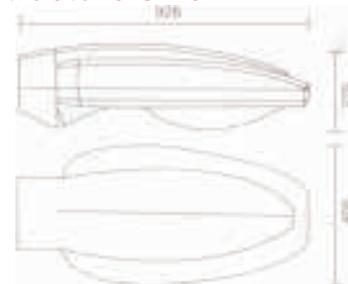
Protection level:IP65

Color temperature:5500K-6500K

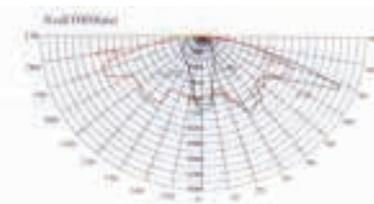
Color rendering:Ra≥75%

Working environment temperature: -40°C~+50°C

**Structure Size:**



**Light Distribution Curve:**



SH-LEDDLD39

**80W**

Light source:LED80\*1W

Applicable height:6-12m

Working voltage:AC(85-265)/Frequency  
(50-60Hz)

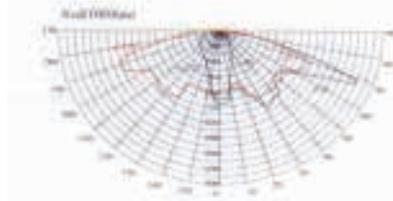
Power factor:&gt;0.9

LED light effect: $\geq 100\text{Lm/W}$ 

Initial flux:126Lm

Protection level:IP65

Color temperature:5500K-6500K

Color rendering:Ra $\geq 75\%$ Working environment temperature:  
-40°C~+50°C**Structure Size:****Light Distribution Curve:**

SH-LEDDL40

**80W**

Light source:LED80\*1W

Applicable height:6-12m

Working voltage:AC(85-265)/Frequency  
(50-60Hz)

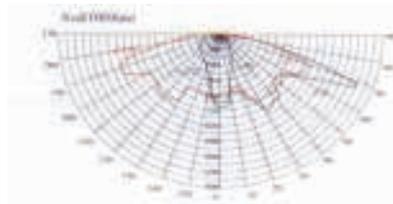
Power factor:&gt;0.9

LED light effect: $\geq 100\text{Lm/W}$ 

Initial flux:126Lm

Protection level:IP65

Color temperature:5500K-6500K

Color rendering:Ra $\geq 75\%$ Working environment temperature:  
-40°C~+50°C**Structure Size:****Light Distribution Curve:**

SH-LEDDL41

**80W**

Light source:LED80\*1W

Applicable height:6-12m

Working voltage:AC(85-265)/Frequency  
(50-60Hz)

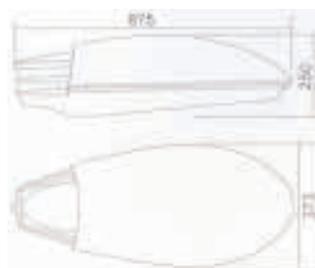
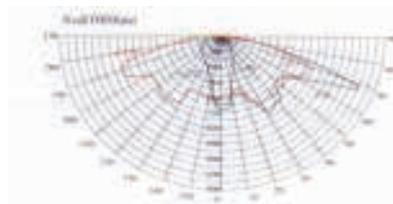
Power factor:&gt;0.9

LED light effect: $\geq 100\text{Lm/W}$ 

Initial flux:126Lm

Protection level:IP65

Color temperature:5500K-6500K

Color rendering:Ra $\geq 75\%$ Working environment temperature:  
-40°C~+50°C**Structure Size:****Light Distribution Curve:**

SH-LEDDL42



SH-LEDDL43



### Product Description

#### Characteristic:

- 1) high brightness LED light source, long service life, low power consumption, low heat, light every 50000 hours 10%
- 2) aluminum lamp body, solid structure, seismic resistance, ensure lamps can work in harsh outdoor environment
- 3) toughened glass cover, effectively increase the ability to fight

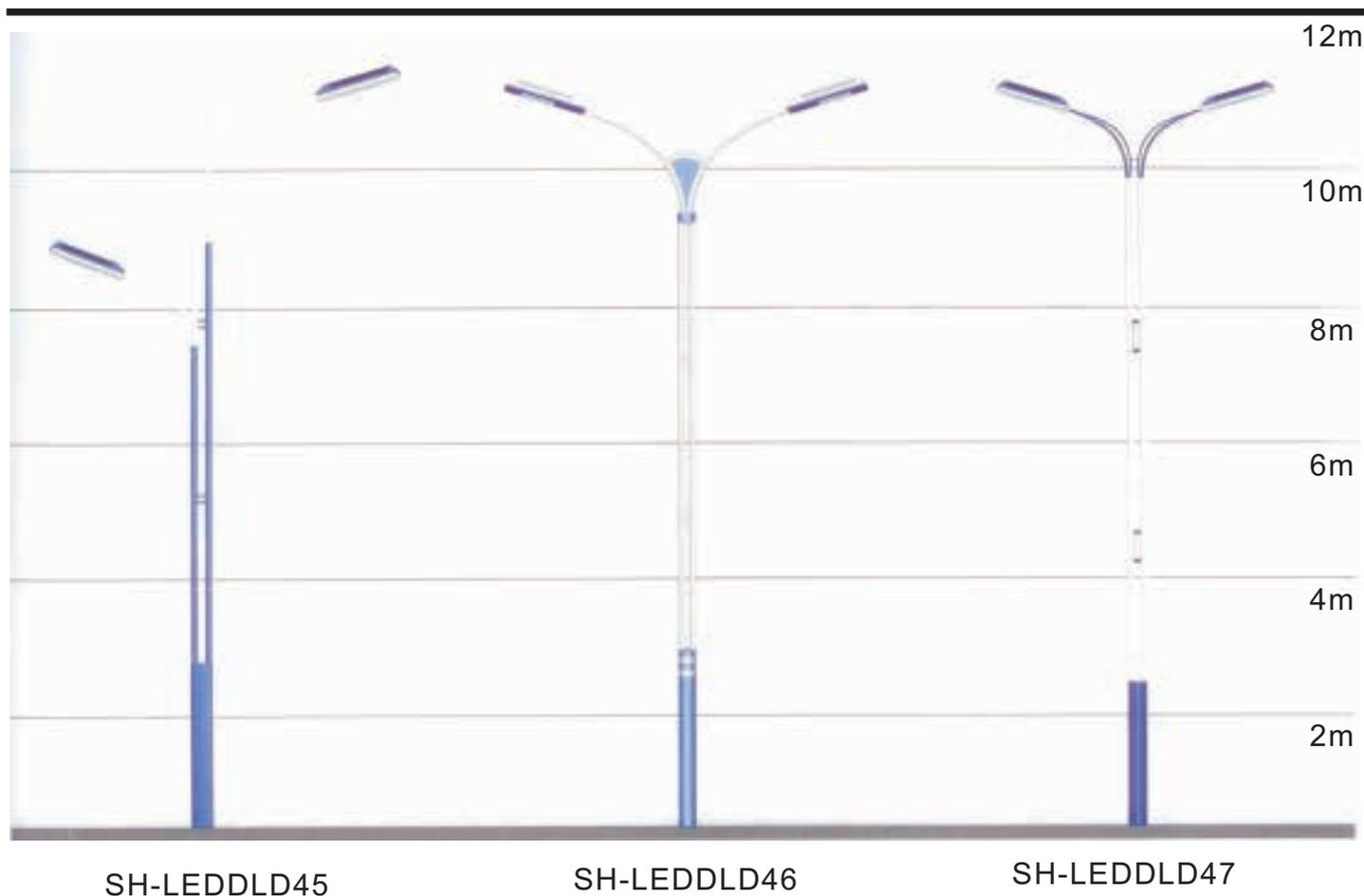
#### Texture of material:

- 1) high pure aluminum lamp body, anodic oxidation treatment, surface spray
- 2) surface polyester electrostatic spraying, stainless steel fasteners, corrosion resistance
- 3) toughened glass

#### Place of use:

The fast lane, main roads, secondary roads, road, square, park, use pole height: 6-12M

SH-LEDDLD44



SH-LEDDLD45

SH-LEDDLD46

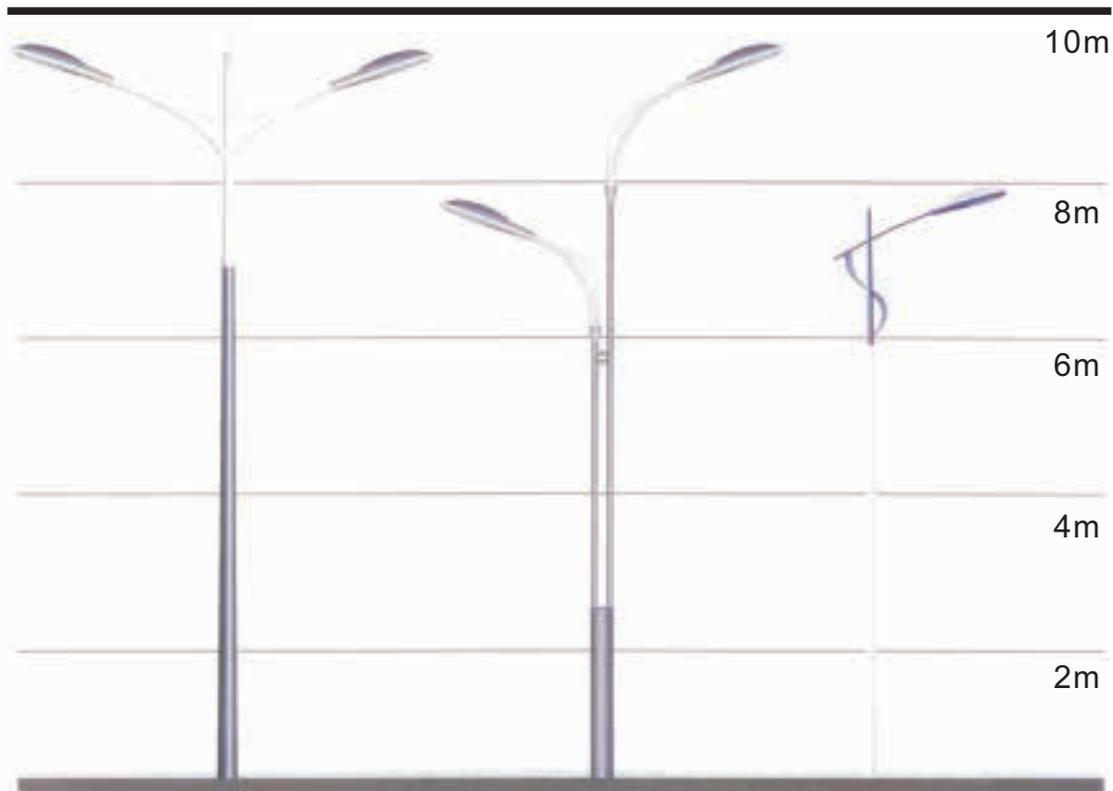
SH-LEDDLD47



SH-LEDDL48



SH-LEDDLD49



SH-LEDDLD50

SH-LEDDLD51

SH-LEDDLD52

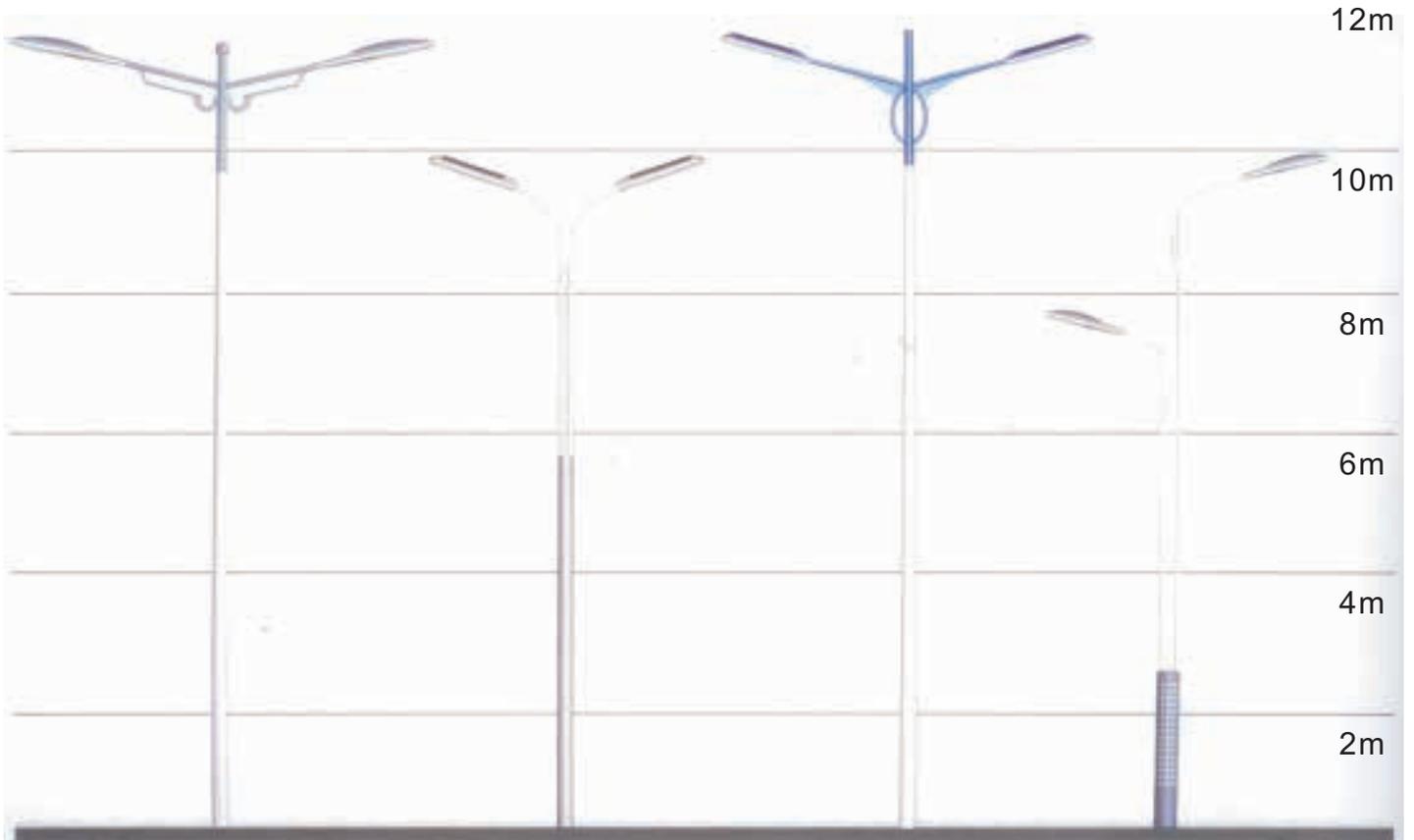
SH-LEDDLD53



SH-LEDDL54



SH-LEDDL55



SH-LEDDL56

SH-LEDDL57

SH-LEDDL58

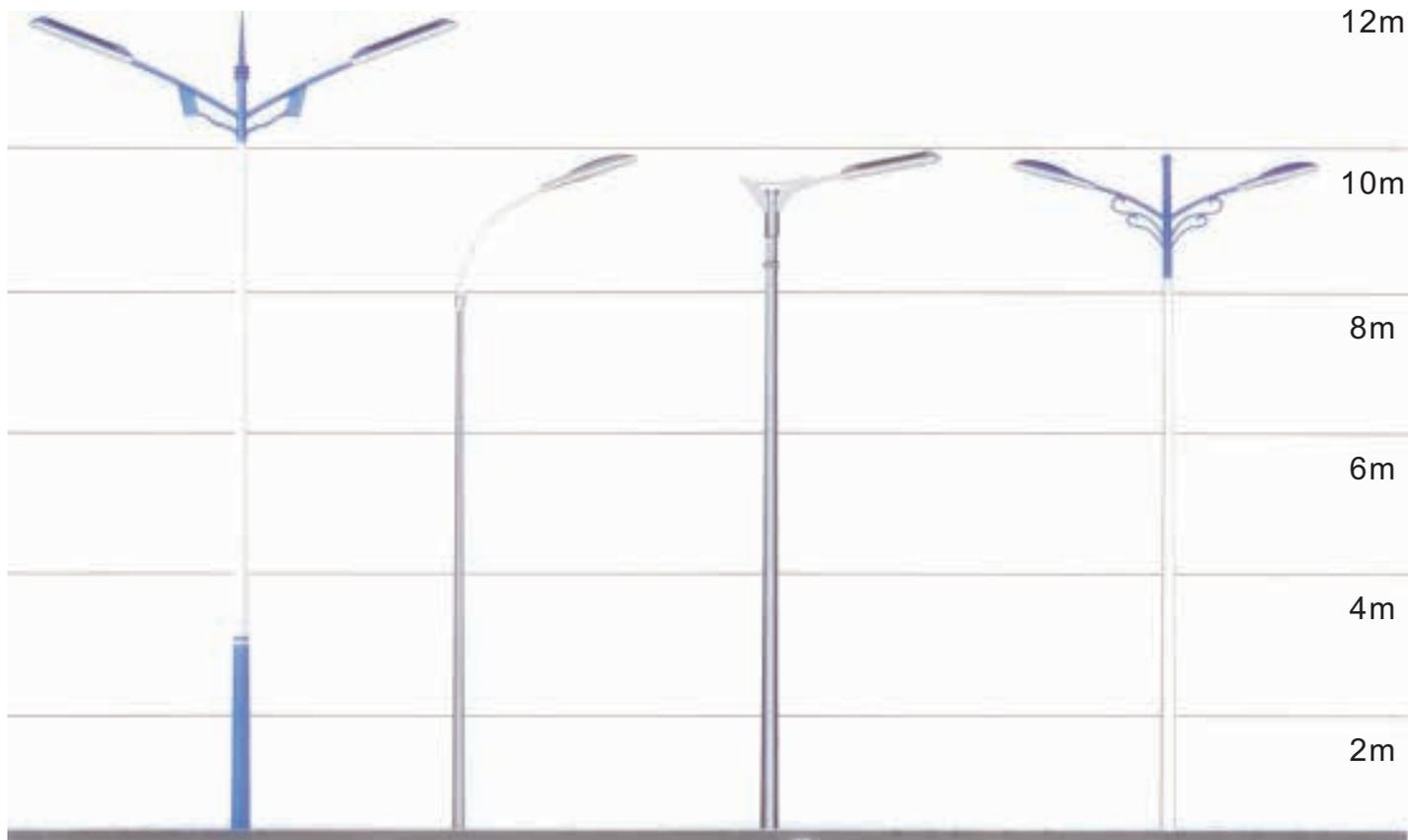
SH-LEDDL59



SH-LEDDL60



SH-LEDDL61



SH-LEDDL62

SH-LEDDL63

SH-LEDDL64

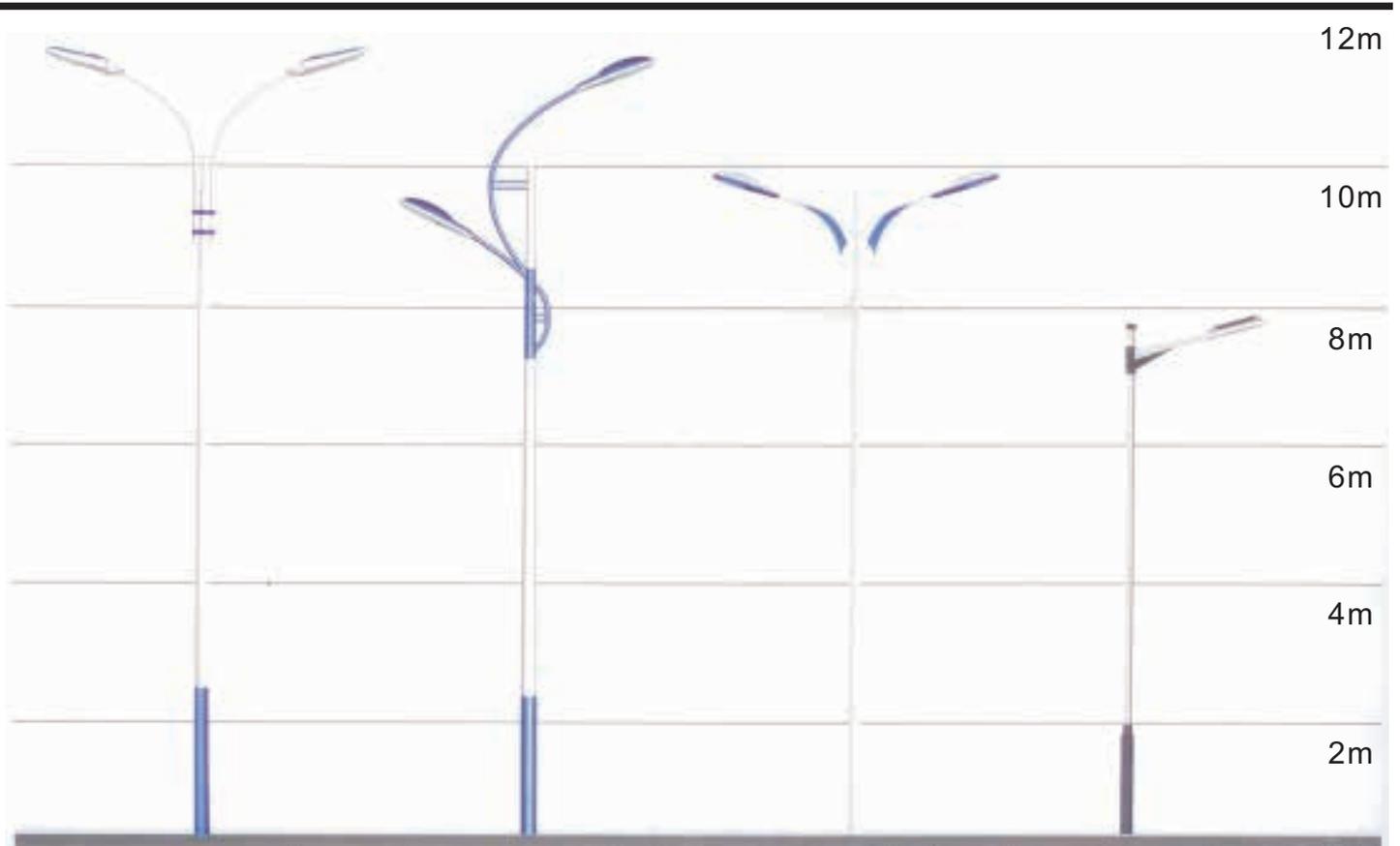
SH-LEDDL65



SH-LEDDL66



SH-LEDDL67



SH-LEDDL68

SH-LEDDL69

SH-LEDDL70

SH-LEDDL71



SH-LEDDLD72



SH-LEDDLD73



SH-LEDDLD74

SH-LEDDLD75

SH-LEDDLD76

SH-LEDDLD77



SH-LEDDLD78



SH-LEDDLD79



SH-LEDDLD80



SH-LEDDLD81



SH-LEDDLD82



SH-LEDDLD83



SH-LEDDLD84



SH-LEDDLD85



SH-LEDDLD86

## LED Point Light Source Products

In recent years, despite the lighting project, LED point light source products to its compact, lightweight, Jin Ying clear, bright magnitude characteristics such as being pursued by the designer. It not only let it each lamp become independent pixel, and through the controller series to achieve the effect, and can also be uniformly distributed negative effects on a surface. It can fully according to the different characteristics of the construction of all kinds of spherical, concave, plane, with the surface shape of the building and the light serves as a foil to architectural features to generate unique stereo effect.

### LED Star Lamp Point Light Source

Product features and advantages:

1. LED light source long life, no accident, almost no need to replace the bulb, a construction, for several years.

2 low power consumption, no need for lighting, and landscaping to pay high power

3 lamps, lamp body uniform use of advanced corrosion resistant material, waterproof, anti-corrosion, durable.

4 advanced engineering plastic shell, the light is soft and full, the change is gorgeous.

Point light source is currently more popular decorative light source, is a point light source decoration lamps, and its light source and lamp functions in a body, can be used as point light source, and can be connected through a variety of ways of installation line or screen, the effect is varied, the application is widespread.

Technical parameters:

Working voltage: AC12V/24/220V

Temperature: -30 +60

Protection level: outdoor Ip67

Shell color: milky white, transparent

Shell size: 50mm, 80mm, 90mm, 100m, 110m, 120mm, 150mm, 200mm

Applicable places: widely used in entertainment venues, bars, curtain wall construction, parks, streets, squares, private villas, garden, lawn, entertainment and other lighting decoration.



SH-DGY01

### LED Honeycomb Point Light Source

LED point light source uses the technology of bus communication technology, which can be extended to 500 meters. Each lamp contains 34 high brightness LED light tube, each lamp can complete 4096 kinds of color change, the lamp can be placed on a variety of wall. Can form a large area of control effect with the bus controller, can realize the design, animation, text play. LED point light source is suitable for small and medium engineering, such as the light decoration of the facade, the effect of the floor lamp, the effect of the interior lighting and so on.

Technical parameters:

Color: 4096 color, seven color, one white, one blue, one green, one yellow.

Light source: 36 bright LED light-emitting tube.

Shell: 70mm high transparent PC lampshade, cast aluminum lamp.

Control: bus controller

Power specifications: AC12V/24/220V

Temperature range: -30 +60

Protection level: Ip65

Applicable places: widely used in entertainment venues, bars, curtain wall construction, parks, streets, squares, private villas, garden, lawn, entertainment and other lighting decoration.



SH-DGY02

### LED Point Light Source

Using imported PC material, also known as bulletproof glass, the base can be aluminum, can be made of plastic, can make light to achieve the best effect, at the same time cold, aging resistance, not fragile, the waterproof performance is good, use no worries. Long service life of light source. Easy installation.

Technical parameters:

Types are: 80mm, 90mm, 150mm, 200\*200mm, 120mm

Luminous degree: 180 degree

Working environment: -20 45

Input voltage: 300V-230V

Working voltage: 24V

Protection level: Ip65

Application areas: indoor and outdoor architectural decoration, home decoration, outdoor ordinary lighting decoration, etc..



SH-DGY03



SH-DGY04

**LED Button Light (turtle lamp)**

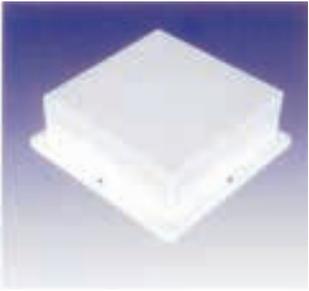
Ultra high import chip uses as light source, the built-in microcomputer chip can be arbitrary programming control, multiple simultaneous changes, ultra low power, long life, Voltage DC12V DC24V, AC110V, AC220V four selectable color red, green, yellow, blue, purple, blue, white  
Such as monochromatic change, also can realize the synchronization of seven color gradient, jump scanning, water and other color change effect. Is the building contour, amusement park, the large-scale advertisement board, the curtain wall, the square street, the stage bar and so on place the ideal ornament.  
Control mode: internal control and external control  
Model: 90mm/120mm/150mm/200/230mm with aluminum.  
PC block 100mm/150mm/200\*200mm  
Waterproof: PCB insulation paint brush, beads and bottom outlet is sealed by epoxy resin.  
Ambient temperature: -20 ~45  
Input voltage: 200V~230V  
Protection level: Ip65



SH-DGY05

**LED With 100 Point light Pagoda**

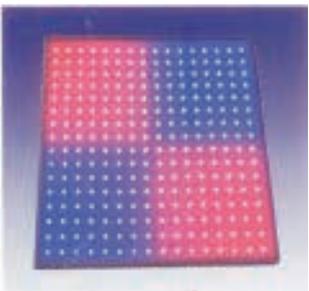
LED point light source is a new type of decorative lamp, which is a supplement to linear light source and the light source. The base is aluminum, spray and oxidation treatment, but also can be designed as a corrosion resistant plastic material as the base. Point light source to achieve the effect of the best effect, while the cold, anti-aging, not fragile, waterproof performance is good, the use of the family did not worry, light source with long mission time, easy to install.  
Technical parameters:  
Types are: 80mm, 90mm, 150mm, 200\*200mm, 120mm  
Luminous degree: 180 degree  
Working environment: -20 45  
Input voltage: 200V~230V  
Working voltage: 24V



SH-DGY06

**LED Four Point Light Source**

High brightness imported chip as the light source, the built-in microcomputer chip, can be arbitrary programming control, multiple simultaneous changes, ultra low power, ultra long power, long life. Voltage DC12V DC24V, AC110V, AC220V four selectable color monochrome red, green, yellow, blue, purple, blue, white and other changes also can realize synchronous seven color gradual change, jump and scanning, water color change effect. Is the building contour, amusement park, the large-scale advertisement board, the curtain wall, the square street, the stage bar and so on place the ideal ornament.  
Technical parameters: internal control and external control  
Ambient temperature: -20 ~45  
Input voltage: 200V-230V  
Protection level: Ip65



SH-DGY07

**LED Stainless Point Light Source**

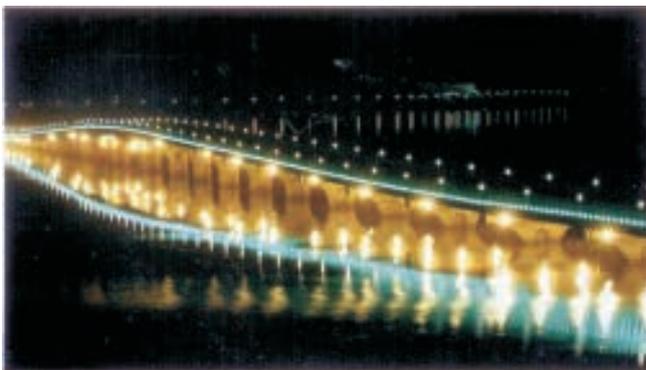
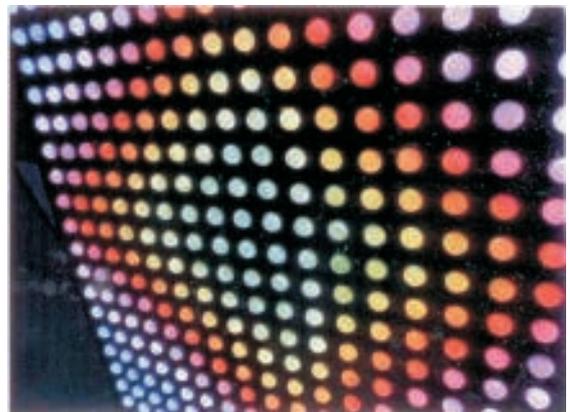
The product color: single red, single yellow, single blue, single green, single white, colorful  
Technical parameters:  
Model: 200\*200mm, 300\*300mm, 400\*400mm  
Luminous degree: 180 degree  
Working environment: -20 ~45  
Working voltage: 24V  
Protection level: Ip65  
Applicable places: in the application of floor, balcony, the underside of the form, and the overall effect of the decoration, the nighttime like stars shining, colorful, soft and uniform.  
Indoor and outdoor architectural decoration, outdoor lighting decoration, etc..



SH-DGY08

**LED Windmill Point Light Source**

Applicable place:  
This product is widely used in building, ancient buildings, glass curtain wall, light, stage lighting, bar, hotel, shopping malls, entertainment and decoration projects, etc..  
Product features:  
High power LED to replace the traditional light source, stable performance, environmental protection and energy saving, no radiation, good heat dissipation, color RGB, and can be monochrome, color change; more than one at the same time, the color can be synchronized changes  
Power supply voltage: 110/220V  
Protection level: Ip65



## LED Wash Wall Lamp Products

Led wash wall lamp is imported high power LED light source, through the aluminum base circuit board and aluminum alloy shell for cooling system, so that the LED life longer, the luminous efficiency is better, the lamp by the drawing of aluminum alloy and lightweight, compact, end cover is made of aluminum alloy die-casting, high strength glass, high transmittance, impact resistance performance is good, with high temperature silicon rubber sealing ring, sealing is reliable and adjustable light angle and position to in the best position, to achieve the most satisfactory lighting effects.



SH-XQ01

### High Power Single Color Wash Wall Lamp

Product Name: 400 type single wall wash wall lamp; 800 type single wall wash wall lamp; 1200 type single wall wash wall lamp

Technical parameters:

Color: red, blue, white, warm white, orange

Input voltage: 90~260VAC

Working voltage: DV24C

LED branch current: 350mA

Luminous angle: 120 degrees

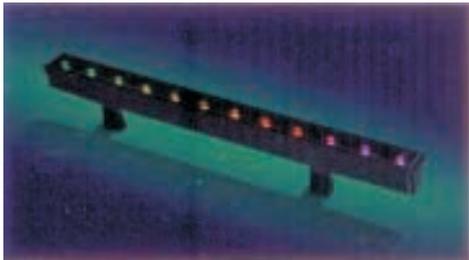
Projection distance: 20m

Protection level: Ip65

Ambient temperature: -20 45

Control mode: Standard DMX512 signal controller

Scope of application: can be widely used in the premises, light decoration, and stage, conference room, the display lamp, ancient architectural structures, cultural square place.



SH-XQ02

### High Power RGB Wash Wall Lamp

Product Name: 400 type single wall wash wall lamp; 800 type single wall wash wall lamp; 1200 type single wall wash wall lamp

Technical parameters:

Input voltage: A90V~AC260V (50/60Hz)

Working voltage: DV24C

LED branch current: 350mA

Luminous angle: 10 degree -120 degree

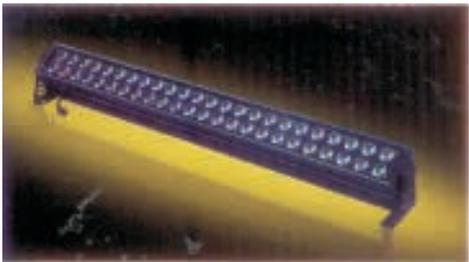
Projection distance: 20m

Protection level: Ip65

Ambient temperature: -20 45

Control mode: the built-in control mode, controller, control panel, etc.

Scope of application: can be widely used in the premises, light decoration, and stage, conference room, the display lamp, ancient architectural structures, cultural square place.



SH-XQ03

### Large Power And Multi Line Monochrome Wash Wall Lamp

Type 600 - type 900 - type one - wall lamp; 1200 - type wall lamp

Technical parameters:

Color: red, blue, white, warm white, orange

Input voltage: 90~260VAC

Working voltage: DV24V

LED branch current: 350mA

Luminous angle: 120 degrees

Projection distance: 20m

Protection level: Ip65

Ambient temperature: -20 45

Control mode: Standard DMX512 signal controller

Scope of application: can be widely used in the premises, light decoration, and stage, conference room, the display lamp, ancient architectural structures, cultural square place.



SH-XQ04

### High Power RGB Wash Wall Lamp

Product Name: more than 600 types of wall lamps; 900 types of multi wall wash wall lamp; more than 1200 types of wall lamp

Technical parameters:

Input voltage: AC120V (50/60Hz), AC240V (50/60Hz)

Working voltage: DV24C

LED branch current: 350mA

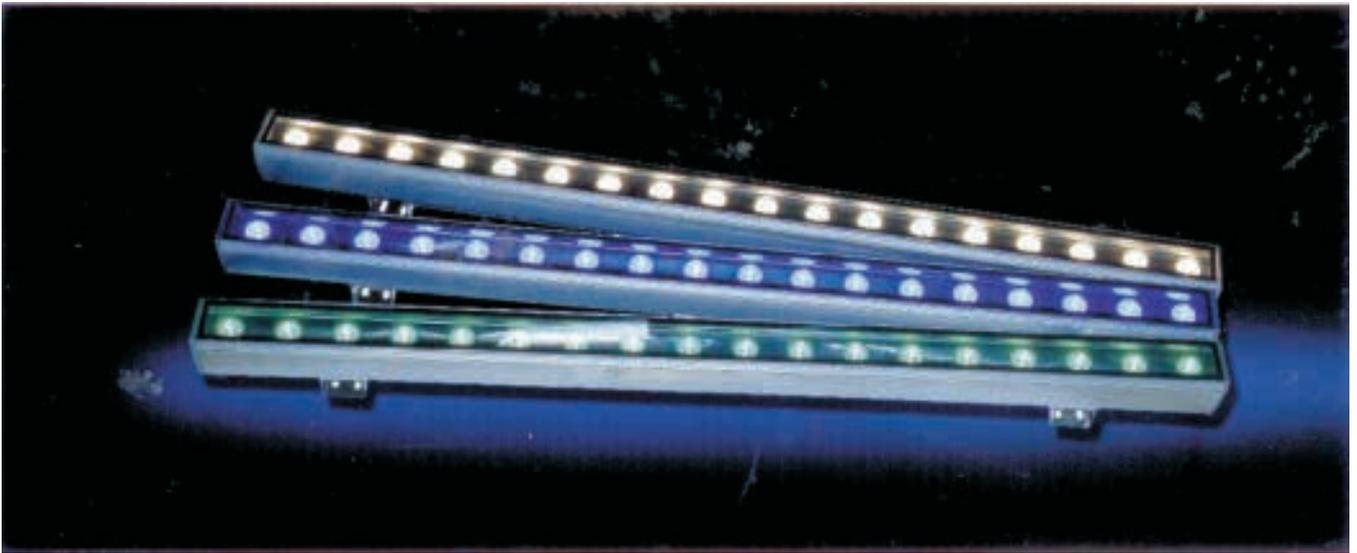
Luminous angle: 10 degree -120 degree

Projection distance: 20m

Protection level: Ip65

Ambient temperature: -20 45

Scope of application: can be widely used in the premises, light decoration, and stage, conference room, the display lamp, ancient architectural structures, cultural square place.



## SH-XQ05

### Product Features:

Led wash wall lamp is a new generation of energy-saving products, the shell is made of aluminum alloy lamp body and the overall molding process, to ensure a good cooling effect, effectively reduce the LED in the process of decay. Light sources adopt import high power LED, long life, low power, pure color, no pollution, no stroboscopic and other significant advantages, efficient use of PMMA optical lens, optical loss of small, light transmission is good. Unique switching constant current source control technology to ensure the stability of



## LED Digital Tube Products

LED digital tube also known as LED fence tube, LED contour lights, etc.

LED digital tube is an advanced LED decorative lighting products. The use of ultra high brightness LED light source, composed of three primary colors of red, green and blue, can produce static monochrome, rolling chase, colorful angle, alternate color flashing, random gleam, change, fast running, two-color flow, chasing rainbows etc. more than 30 kinds of rich and colorful effect. Special computer off-line control system, can achieve the preparation of arbitrary patterns and text, flow scanning, color, sound control, and so on. Widely used in the decoration and contour of the outline of a building, overpass, river, garden, lamp, stage, bar, hotel, disco, KTV song and dance hall, bridge, channel bank drew the outline of occasions, became the ideal choice for decoration of the urban environment.

### Product Features:

- 1, the use of durable high temperature and high performance molding material of high quality PC lamp, anti aging, anti collision performance, high temperature resistance, solvent resistance, mixed color uniform, good light transmittance;
- 2, the color of the pipe is clear, milky white, translucent; pipe has a round, D shaped, U type (with a plug, stent);
- 3 per meter, specifications can be installed 96 tablets, 108 tablets, 144 tablets of LED lamp;
- 4, according to the concentric circle theory design, LED light-emitting circular light of many times, from the angle of 180 degrees, visibility is strong;
- 5, LED for the solid cold light source, epoxy resin packaging, no filament fever; rated voltage, constant current power supply, to ensure that the LED long-term work, the attenuation is small;
- 6, high brightness LED as the light source, color, pure color without spot, red, green, blue, yellow, white, double colors, colorful gradient, control can achieve multi-color changes;
- 7, control form, can be divided into kinds of control, external controller, the two form, can be connected with the DMX512 series controller, IC programming, the conversion mode can reach tens of millions of;
- 8, the installation is convenient, the projection angle is big, dust, prevent leakage.
- 9, the working voltage of 12V, 24V, 110V, 220V can be chosen for customers.
- 10, the use of electromagnetic compatibility design, does not contain harmful pollution to the environment, to achieve the green.
- 11, the LED light source, low energy consumption, long life of 5-10 million hours (according to the external environment).

### Technical Parameter List:

Serial number	Product model	Chinese explanation	Protection level	Dimensions	Voltage (V)	Power (W)	LED number	Color	Control mode
1	SH1-50a	Monochrome Monochromatic light	IP65	D50*H37*L1000mm φ50*L1000mm	110/220/24	9.2-15	96	Red yellow blue green white	Internal control
	SH1-50b		Ip65	D50*H50*L1000mm φ80*L1000mm			108		
	SH1-80		Ip65	D80*H60*L1000mm φ80*L1000mm			144		
2	SH2-50a	False three Three stage water	Ip65	D50*H37*L1000mm φ50*L1000mm	110/220/24	9.2-15	96	Full color	Internal control
	SH2-50b		Ip65	D50*H50*L1000mm φ80*L1000mm			108		
	SH2-80		Ip65	D80*H60*L1000mm φ80*L1000mm			144		
3	SH3-50a	False six Six stage water	Ip65	D50*H37*L1000mm φ50*L1000mm	110/220/24	9.2-15	96	Full color	Internal control
	SH3-50b		Ip65	D50*H50*L1000mm φ80*L1000mm			108		
	SH3-80		Ip65	D80*H60*L1000mm φ80*L1000mm			144		
4	SH4-50a	True three Three stage water Scanning, overall color change	Ip65	D50*H37*L1000mm φ50*L1000mm	110/220/24	9.2-15	96	Full color	Internal control
	SH4-50b		Ip65	D50*H50*L1000mm φ80*L1000mm			108		
	SH4-80		Ip65	D80*H60*L1000mm φ80*L1000mm			144		
5	SH5-50a	True six Six stage water Scanning, overall color change Most commonly used	Ip65	D50*H37*L1000mm φ50*L1000mm	110/220/24	9.2-15	96	Full color	Internal control
	SH5-50b		Ip65	D50*H50*L1000mm φ80*L1000mm			108		
	SH5-80		Ip65	D80*H60*L1000mm φ80*L1000mm			144		
6	SH6-50a	Colorful Overall color change	Ip65	D50*H37*L1000mm φ50*L1000mm	110/220/24	9.2-15	96	Full color	Internal control
	SH6-50b		Ip65	D50*H50*L1000mm φ80*L1000mm			108		
	SH6-80		Ip65	D80*H60*L1000mm φ80*L1000mm			144		
7	SH7-50a	Digital screen 8, 10, 12, 16 can achieve the text, images, animation and other color changes	Ip65	D50*H37*L1000mm φ50*L1000mm	12	9.2-15	120 144	Full color	Internal control
	SH7-50b		Ip65	D50*H50*L1000mm φ80*L1000mm					
	SH7-80		Ip65	D80*H60*L1000mm φ80*L1000mm					

## Product Name: LED Digital Tube

Is composed of a digital computer controller circuit and RGB three color LED light source, is a kind of advanced decorative lamp. Selection of high quality ultra bright LED as light source, high strength of imported PC material as the shell color, full-color scanning. Both the soft light, and neon lights fever dynamic brilliant, can achieve synchronous equipment gradient, jump, running, chasing, scanning and other effects. According to the installation of different colors, can also change the color of the characters, patterns, and other effects. Is the preferred tool for city lighting engineering.

Product features:

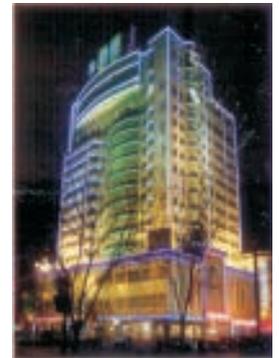
1, the use of embedded control technology, excellent circuit design, with a reliable performance, simple control, low maintenance, mixed color effect is good, bright color, energy saving, environmental protection and many other characteristics.

2, a number of leading technology, excellent circuit design, with reliable performance, simple control, simple installation, low maintenance, mixed color effect, color, vivid, energy saving, environmental protection and many other characteristics.

According to customer requirements for color and change rule of any programming, there are 8 / 0.5 meters, 16 / M can be achieved 1000 meters jump, graded, Happy Valley, the chase, the scanning, water and other colorful dynamic changes in 3, programming software, can also play video.



SH-XQ01



SH-XQ02



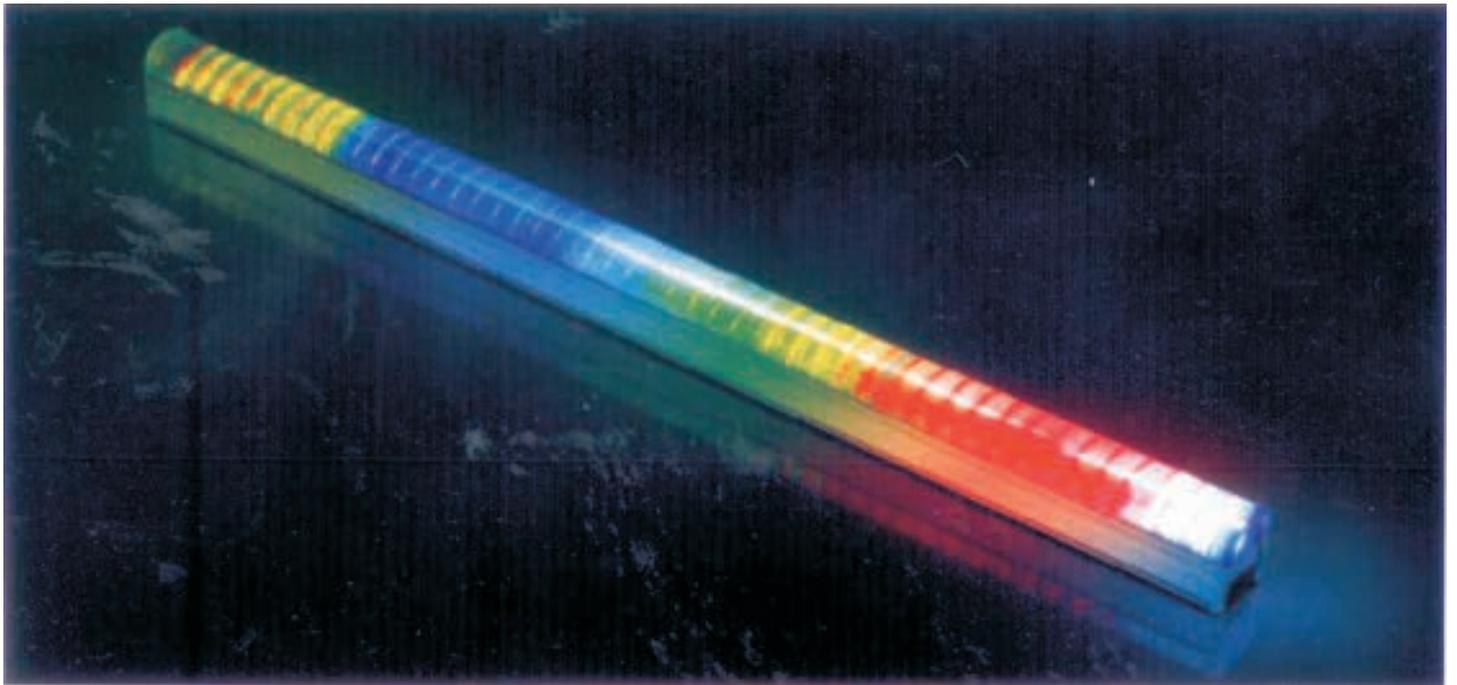
SXH-XQ03



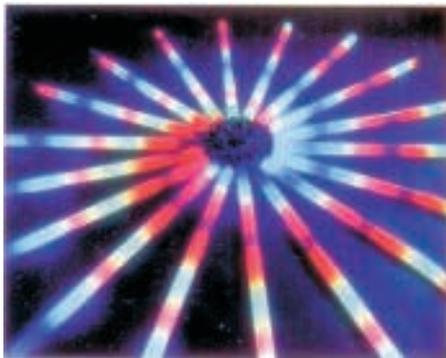
SH-XQ04



SH-XQ05



SH-SMG06



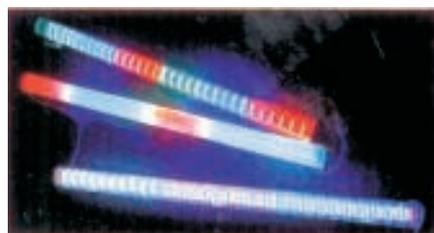
SH-SMG07

**Technical Parameters:**

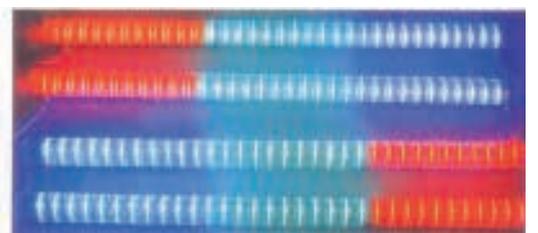
Color: monochrome / color  
 Voltage: DC24V  
 Power: 8W  
 Light source: 144  
 Angle: 120  
 Life: 50000 hours  
 Protection level: Ip65  
 Working environment: -20 ~+45  
 Material: shell is PC cover, with aluminum groove

**Application Range:**

Outdoor plaza, building body contour, bridge, tunnel and landscape lighting.

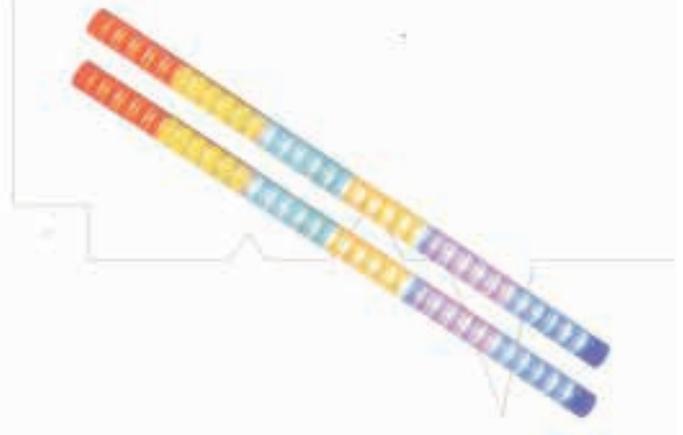


SH-SMG08

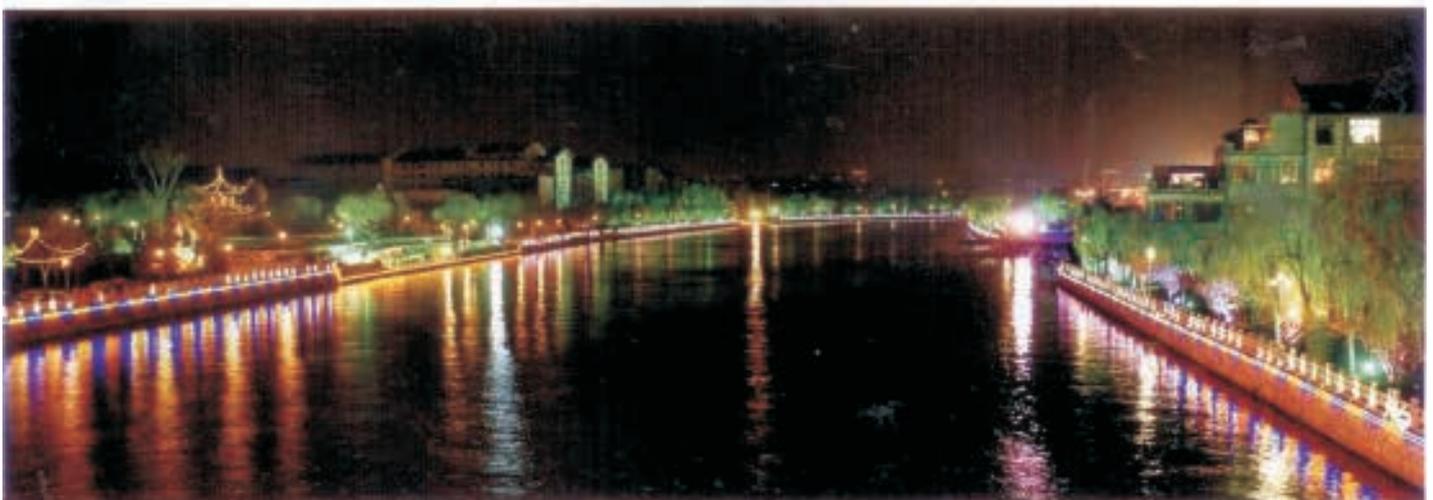


SH-SMG09

LED DIGITAL TUBE



SH-SMG10

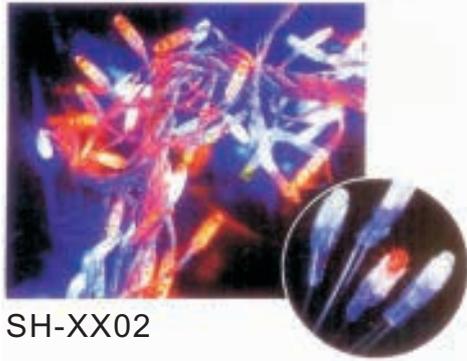


### LED Star Lamp Products

- 1, the use of high quality LED light-emitting diodes, power consumption is the smallest, small heat, long life, high impact, high reliability. Combined folding into any shape, color pure, changeable, is the production of styling and lighting pattern the most ideal lighting varieties.
- 2, input 220V-110V DC voltage, 10m current is 0.06A
- 3, all of the products have used the eight functional controller, which has two color 3 loop changes.



SH-XX01



SH-XX02

#### Technical Parameters:

Can be shown: light, jump, gradient, flashing  
 Working voltage: 220V (AC)  
 Power consumption per meter: 10W  
 Working temperature: -40 ~55  
 Amount: 100  
 Color: red, yellow, blue, green, white, four  
 Protection level: Ip65  
 Dimensions: 10 m 8 m  
 Description: special size can be customized

#### Application Range:

Hotel, floor, body contour, signs, bar KTV, road night, the tree waiting place.



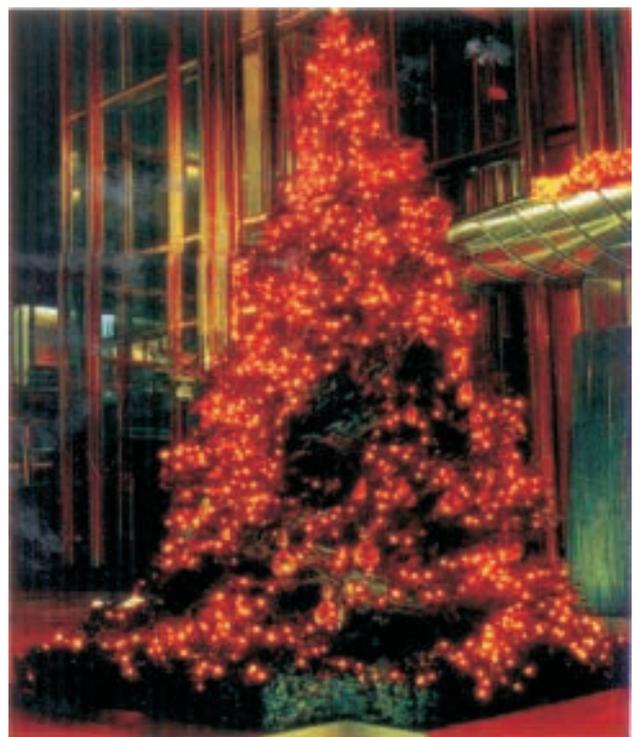
SH-XX04



SH-XX03

#### Product Features:

- 1, LED high brightness, low heat, energy consumption, color variety, the life of up to 100000 hours;
- 2, LED lamp string wire and variety: black, black ink green and transparent, etc., more VDE, UL certification line;
- 3, on both sides of the connection with the extension of the male and female connectors can be connected according to need;
- 4, male and female connector connection, equipped with waterproof apron feeder, can prevent the rain;
- 5, light bulbs and electric wire using welding type of connection, welding parts using double insulation and sealing sealant, can prevent the rain.



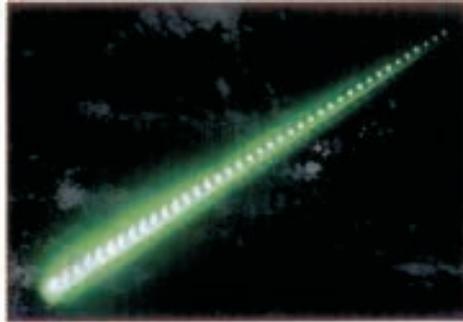
## LED Meteor Shower Products

LED meteor shower is a straight tube LED lighting series of lamps in the landscape, decorative lights, lights with a meteor across the night sky, breaking the traditional landscape of the visual aesthetic limit, can be hung in Trees, under the eaves, the wall surface, especially suitable for the government works on both sides of the trees along the park, tourist attractions, green belt, etc., add beauty to life.

LED meteor shower light color can be according to your preferences, free choice, any collocation, personalized design style entirely by you.



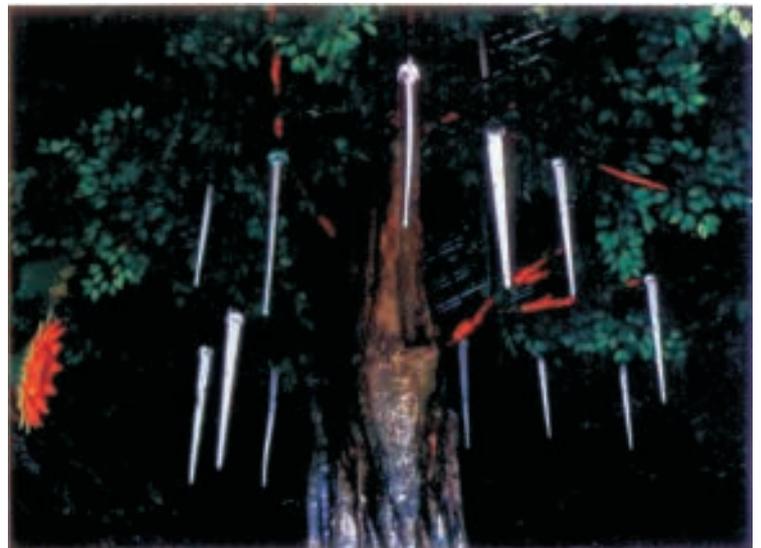
SH-LXY01



SH-LXY02



SH-LXY03



### Product Features:

Meteor effect, romantic aesthetic, Go driving, low voltage power supply, According to the need to add the number of light tube, free play, Waterproof, dust, corrosion, not by time, space constraints.

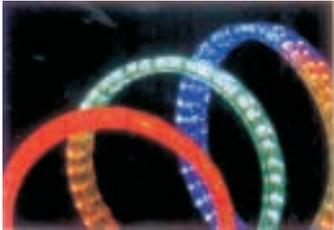
### Scope Of Application:

market lighting engineering: architectural decoration, on both sides of the street trees decoration, decorative Park, Riverside decoration, urban nightscape lighting, beautify the tourist attractions, gardens, community landscape decoration, hotels, shopping malls, entertainment sites surrounding environment landscape decoration, home decor.

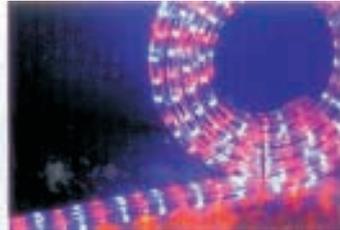
Name	Appearance size (mm)	Input voltage (V)	Rated power (W)	LED number	Color
LED meteor shower	84*9*9mm	24V-240V	8W	228ppcs	Red yellow orange blue green white purple

## LED Rainbow Tube Products

LED rainbow tube for plastic products, the use of high brightness LED light emitting diode production, with low power consumption, energy saving, environmental protection, long life, easy installation, etc.. According to the different requirements of the use of the environment, selection of round wire, flat wire, flat three lines, flat four lines, flat five line, flat seven lines, different specifications of the products or used in conjunction with, can be made into a monochrome and color, with special controller Changliang monochrome, two-color jump, seven color gradient effect can be achieved. With: low energy consumption, high efficiency, long life, easy installation, maintenance rate is low, not fragile, high brightness, cold light source, can be a long time, easy to bend, high temperature, good waterproof, green, color, luminous effect is good and so on. Can be used for buildings, building contour can also be used for interior and exterior decoration.



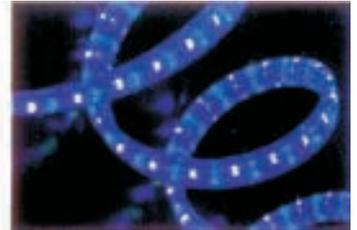
SH-CHG01



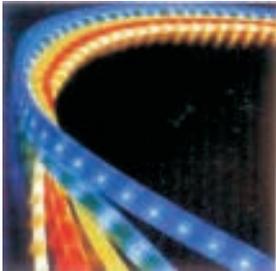
SH-CHG02



SH-CHG03



SH-CHG04



SH-CHG05



SH-CHG06



SH-CHG07



SH-CHG08

SH-CHG08



### Product Features:

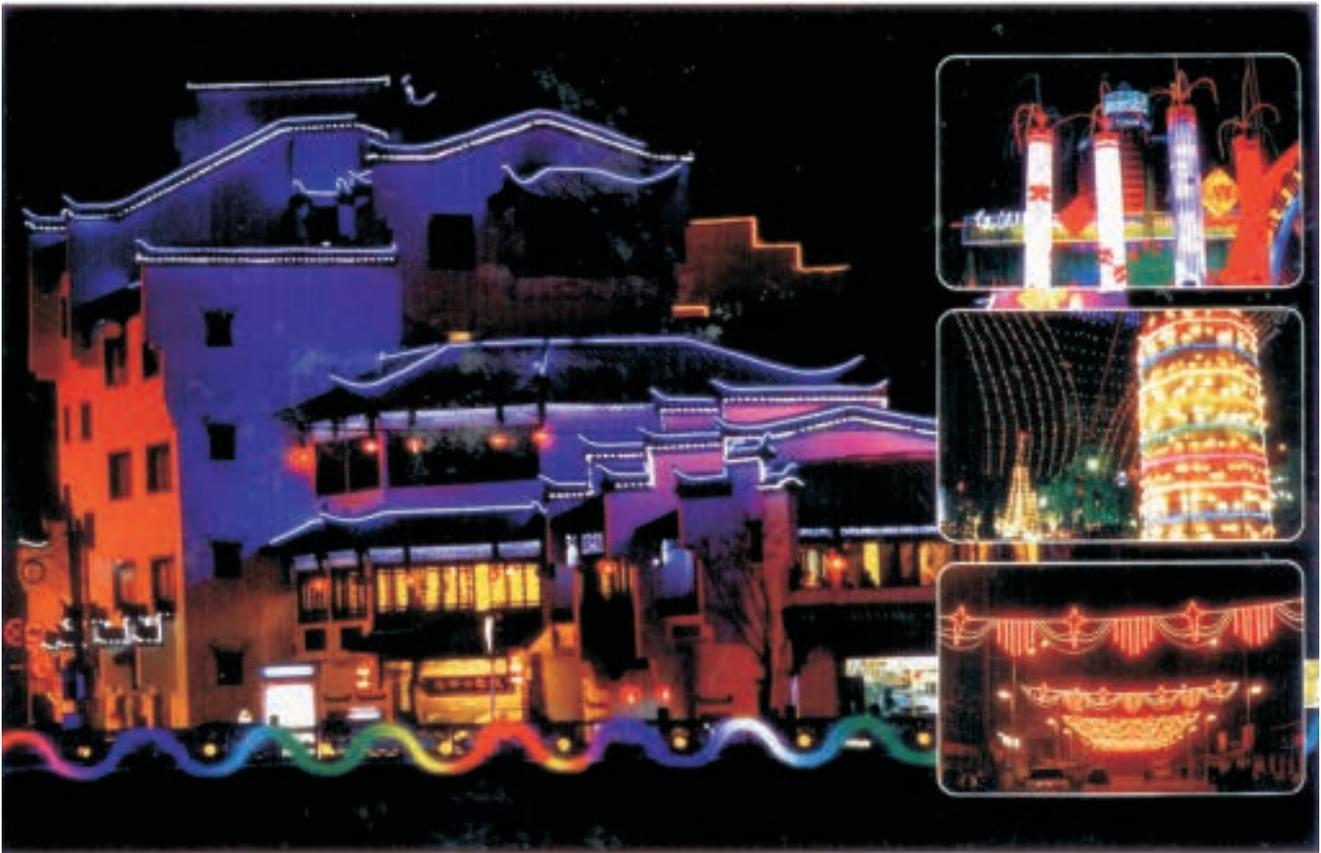
- 1, applicability is strong, in a variety of indoor and outdoor environment adaptability and reliability are improved;
- 2, rich colors: unit box, the electronic screen display rich color, high saturation, high resolution, display is composed of three primary colors (red, green, and blue) display Dynamic image with high frequency;
- 3, high brightness: the use of ultra high brightness of the LED, the sun is still clearly visible in the distance;
- 4, the effect is good: the use of nonlinear correction technology, the image is more clear, the level is stronger;
- 5, reliability: the use of static scanning technology and modular design technology, reliability, stability, higher;
- 6, display mode diversification: support for multiple display mode;
- 7, easy to operate: the use of video playback software, so that the system is very easy to operate.

### Use Range:

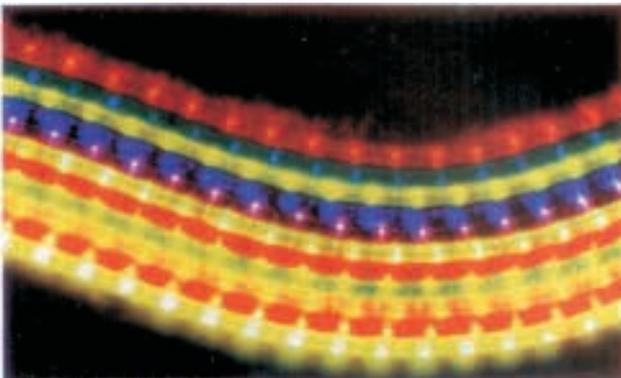
LED rainbow tubes are widely used in the outline of the sketch of the various buildings, construction of large lighting design, all kinds of interior decoration, beautify the environment of the stinky, travelers facade decoration, advertising signs, disco dance halls, stage, film production background and is matched with the controller can produce flashing, dimming effect.

Large second line rainbow tube

Second-line LED rainbow tube is for general linear rainbow tube, diameter 13mm, widely used in outline sketch of the various buildings, construction of large lighting design, all kinds of interior decoration, residential landscaping, travelers facade decoration, advertising signs, disco dance halls, stage, film production background and is matched with the controller can produce flashing, dimming effect.



Name	Voltage (V)	Electric current	Diameter	LED number	Per meter of power	Color	LED life (H)
The second tier	220	18mA	Φ 13	36pcs/m	1W	Red	100000HRS
The second tier	220	18mA	Φ 13	36pcs/m	1W	Yellow	100000HRS
Flat three line	220	18mA	10.5*18	72pcs/m	3W	Blue	100000HRS
Flat three line	220	18mA	10.5*18	72pcs/m	3.5W	Green	100000HRS
Flat four line	220	18mA	10.5*23	91pcs/m	4.5W	White	100000HRS
Flat four line	220	18mA	10.5*23	91pcs/m	4W	Blue	100000HRS



**Technical Parameters:**

Color: red, yellow, blue, white / color

Voltage: DC24V

Power: 1W

Light source: 100pcs

Angle: 120

Life: 50000 hours

Protection level: Ip65

Working environment: -20 ~+45

**Application Range:**

Shopping malls, amusement parks, parks, squares and other places.

SH-CHG09

## LED Lamp Series Products

LED string name LED LED, the English name is Strip LED, the shape of the product is like a tape, then add the main product is the main original, so the name came out. As for the light bar, it is estimated that the shape of its shape, plus the original to constitute the.



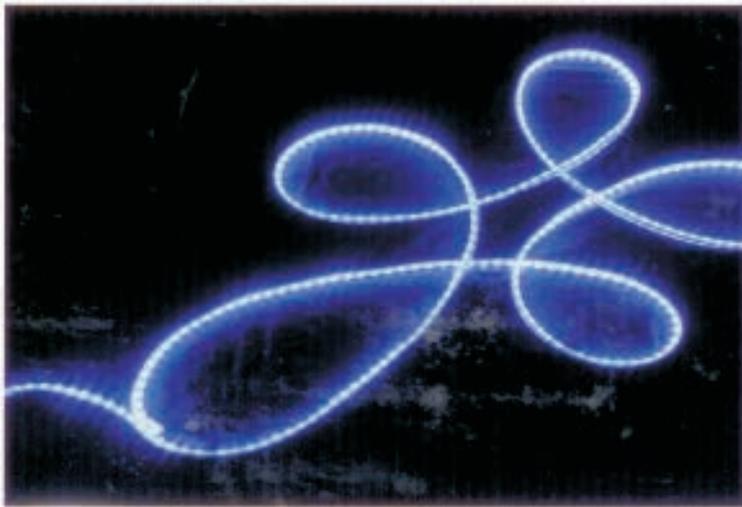
SH-DC01



SH-DC02



SH-DC03



SH-DC04

### Technical Parameters:

Material: light body material for flame retardant ABS,  
transparent epoxy resin  
Color: red, yellow, blue, green, white  
Light source: 60mA LED  
Protection level: Ip65  
Working environment: -20°C ~+45°C  
Life: 20000 hours

**Color Temperature:**

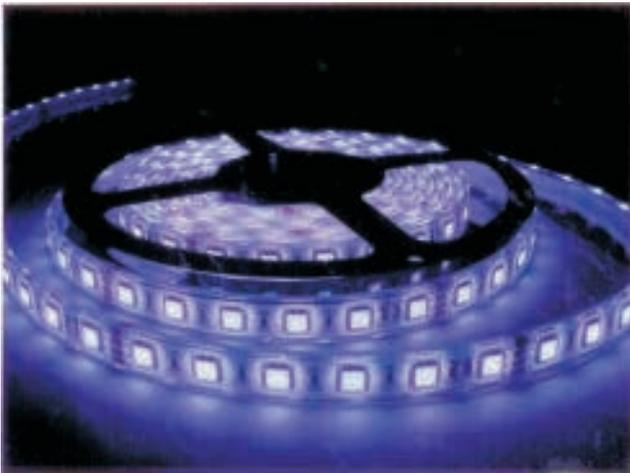
Refers to a standard blackbody heating, when the temperature is increased to a certain extent color by the crimson - reddish - Orange - white - blue, gradually changing, a source of light and the black color is the same, we will blackbody was the absolute temperature of said as the color temperature of the light source. General color temperature is not as a indicator assessment with LED lights only foreign many customers because of the use of the environment, make a special request. Different color temperature of light source, light color is also different, color temperature below the 3300K, color reddish give warm feeling; sedate atmosphere, warm feeling, known as the warm temperature. Color temperature in the 3000-6000K for intermediate, tone here under no clear visual psychological effect, refreshing feeling, so it is called as "neutral" color temperature. The color temperature of more than 6000K, the light bluer, give people the feeling of cold, referred to as the cool temperature.

**Lamp Quantity:**

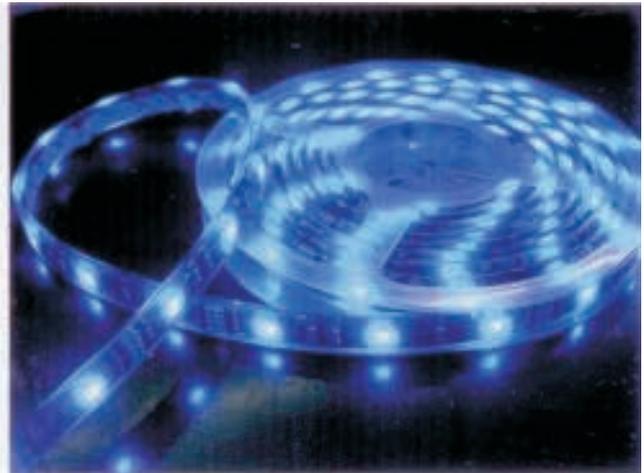
15 lights, 30 lights, 60 lights are LED lights with each meter length on the number of welding LED components, in general, 1210 specifications for each meter 60 LED, 5050 per meter 60 LED special LED lamps with different LED number of LED lamps with different prices, which is also an important factor in the price of LED.

**Applicable Scope:**

1. Harbour lighting backlight, logo or edge. The path and the profile of Mark 4. Marine lights 5. Lighting 6. Replace the fluorescent lamp. Holiday, performances, and exhibition decoration lamp 8. For the crown, corridors, windows, arch lamp. Household own hands-on lamp



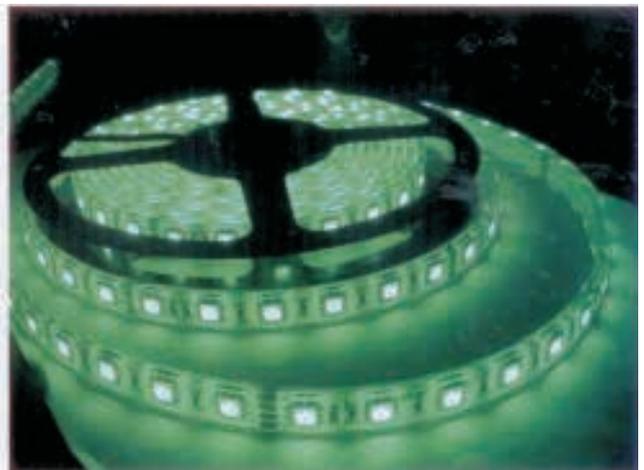
SH-DC05



SH-DC06



SH-DC07



SH-DC08

## LED Lamp Products

Led cast light lamps using high-pressure cast aluminum shell molding, surface electrostatic spraying process, corrosion resistance; with high temperature resistance, impact strength of glass; high temperature silicon rubber sealing belt, aging resistance, good sealing performance, suitable to use under all-weather conditions; accurate and effective adjusting lamp with luminous angle, the precise design of the light distribution system using beam focus and reduce the astigmatism caused by light pollution.

LED lighting lamps are mainly used in the single building, historical buildings, exterior lighting, interior lighting, indoor local lighting, green landscape lighting, advertising licensing lighting, medical culture and other specialized facilities, bar, dance halls and other entertainment atmosphere lighting.



SH-TG01



SH-TG02



SH-TG03



SH-TG04



SH-TG05



SH-TG06



SH-TG07



SH-TG08



SH-TG09



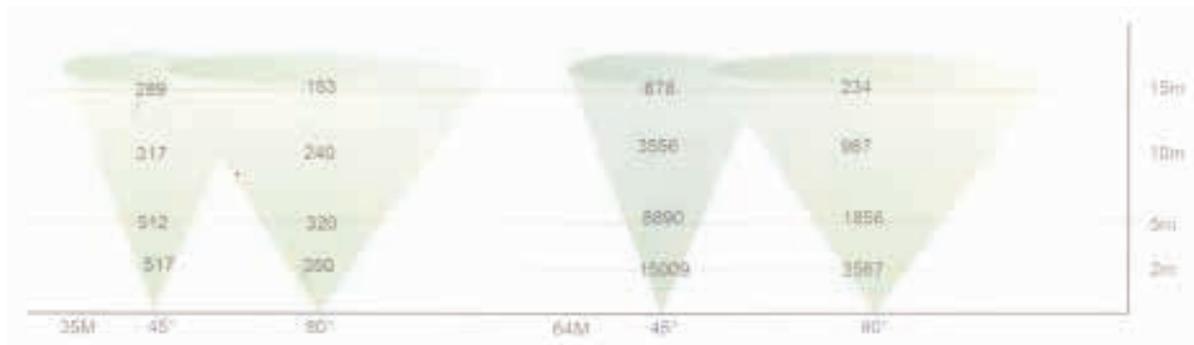
SH-TG108



SH-TG11



SH-TG12





SH-TG13



SH-TG14



SH-TG15



SH-TG16

#### Technical Description:

1 high brightness imported chip, high brightness, low energy consumption, low heat, long life of up to 50000H, can be divided into two kinds of color, color, color.

2. The shell material: high-pressure cast aluminum shell molding, 4mm toughened safety glass characteristics: with symmetric and asymmetric two light distribution choice, glare control effect is good; lighting electrical integration, light and beautiful shape, simple installation; waterproof and dustproof Ip65;

3 voltage: 220V/110V/24V/12V

4.LED light source: 3W, 1W high power LED

5 high-power LED light irradiation distance of 5~30 meters, particularly suitable for landscape architecture, outdoor square, wall, display products color

6 color: Red / yellow / Green / White / colorful, etc.. Through the rich and colorful light and water, the organic combination of the feeling, bring you a fantastic mood.

7 power: 6-54W different environment with different power lamps.

#### Characteristic:

1 the design of the strong earthquakes in the internal and external, effectively solve the problem of the strong vibration caused by the light bulb, the life of the lamp bulb, the fracture of the bracket.

2 with high efficiency gas discharge lamp as light source, the lamp uses a long life of 10000 hours, especially for outdoor large area unattended lighting.

3 the use of light alloy material and high-tech spraying technology, the shell will never rust, never corrosion.

4 the piping and other new technology, to ensure that the overall housing type, reliable sealing, waterproof and dustproof.

5 has good electromagnetic compatibility, will not cause electromagnetic interference to the environment.

6 lamps as a whole good heat dissipation, can reduce the probability of failure.

#### Advantage:

The light color is bright, the color is good, the pipeline is soft, the power is low, the life is long, the time is up to 50000 hours. And its LED lamp light body is small, easy to hide or

Installation, not easy to damage, no heat radiation, good protection of objects, the application is very extensive. All the lamps and lanterns are accompanied by the scale board to adjust the illumination angle, and the LED is the light.

Light through the built-in micro chip control, in the small engineering applications, the use of the controller can be achieved, can realize the gradient, jump, color, flicker, gradient

For the dynamic effect, also can through the DMX control, to achieve the chase, scan and so on.



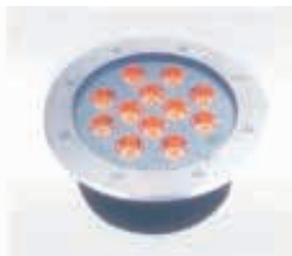
## LED Underground Lamp products

The LED is a light source, and has the advantages of compact structure, rich color, stable performance and long service life.

Can be characterized by the park has been widely used in residential quarters, urban sculpture, walking street, building square, building steps, sidewalks, porch, shopping malls, parking Yard, theme park landscape lighting project.



SH-DM01



SH-DM02



SH-DM03



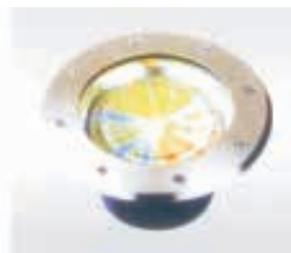
SH-DM04



SH-DM05



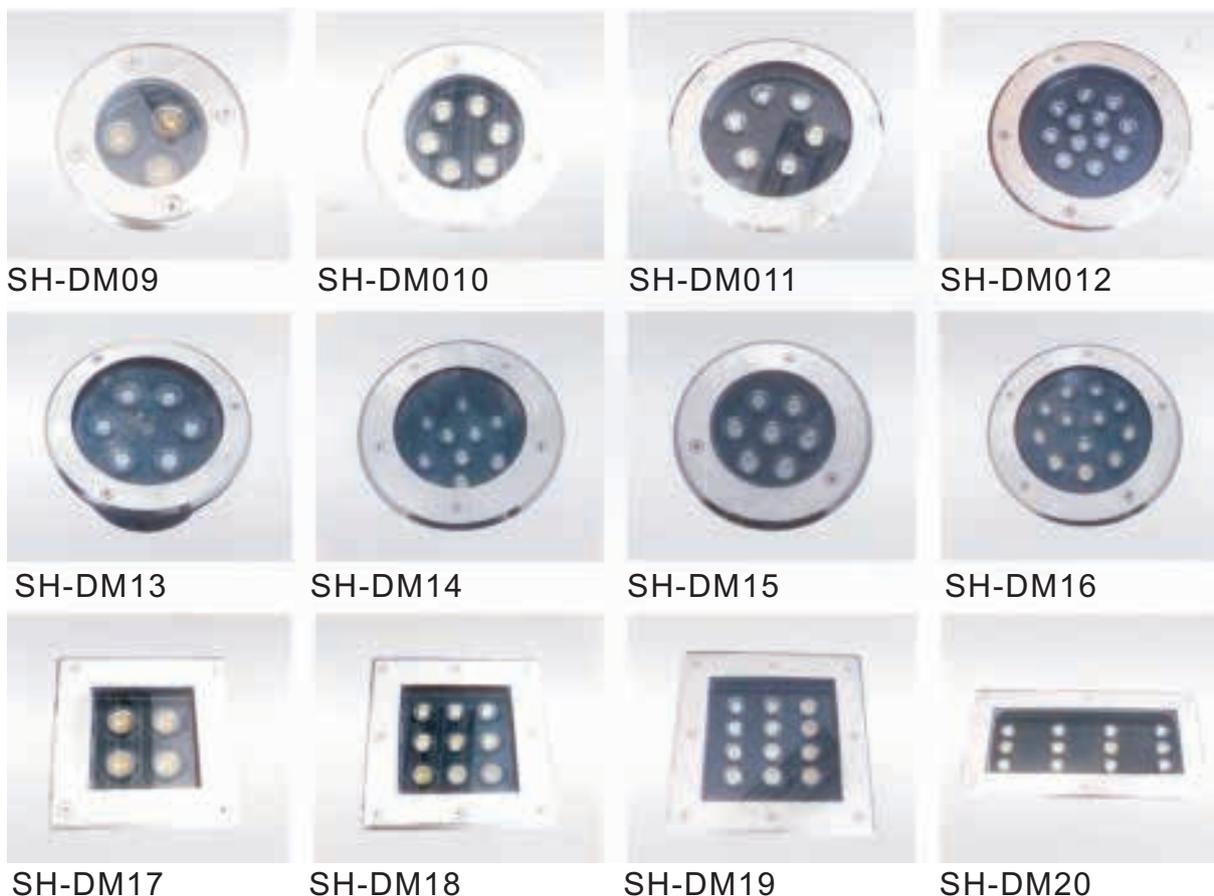
SH-DM06



SH-DM07



SH-DM08

**Texture Of Material:**

Stainless steel polishing panel shell, small size, good heat dissipation, high quality waterproof joints, silicone sealing ring, reinforced glass; shell using aluminum alloy lamp body and the overall molding machine Art (optional stainless steel), go to a weak burst of good heat dissipation effect. Mirror using 8mm toughened glass, the compressive strength of the waterproof level IP67

**Characteristic:**

It has small size, low power consumption, long service life, strong and durable. Low power, long life, easy installation, elegant shape, elegant, anti leakage, waterproof;

1.LED light source long life, no accident almost no need to change the light bulb, a construction, for several years.

2 low power consumption, no need to pay for landscaping lighting, high tariffs.

3 waterproof, dust, pressure and corrosion resistance.

**Advantage:**

1 circuit with over charge and over discharge protection function, the battery life of the long, so that the product is in a stable and good working condition.

2 high performance nickel cadmium battery. With a large capacity, high efficiency, safety and export products: automatic fire emergency lights in the AC power supply

, automatic implementation of the battery charging work, when the AC power supply failure and can not be normal, the sign lights in the time of 1 second, converted into standby power

Emergency state, always to the right, right, and two-sided, etc..

3 lamp shell, the panel is made of non combustible material, the internal connection with temperature is greater than 125 degrees of flame retardant wire.

4 light source with high efficiency and energy saving LED, with high brightness, low energy consumption, large illumination area, long life, etc..

**Uses:**

LED is widely used in the square, outdoor parks, recreation places and other outdoor lighting. Park green, lawn, square, garden, flower beds, pedestrian street decoration, waterfalls, Fountain underwater lighting and other places, to add luster to life

## LED Lamp Bottom Product

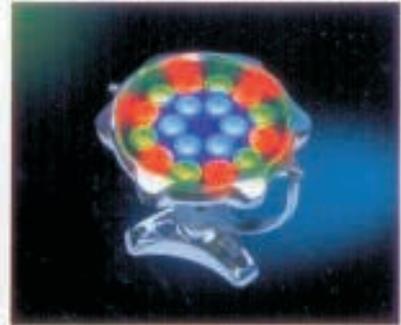
Led underwater lights, also known as LED underwater lights, underwater lights a, simple refers to is installed in irrigated water lights, the appearance of small and exquisite, elegant. Its shape and some The same is just more than just a place to install the site, the chassis is fixed with screws. Because LED underwater light is under the bottom, the need to bear a certain pressure, so it is generally Using stainless steel material, 8-10mm toughened glass, high quality waterproof connector, silicone rubber sealing ring, curved multi angle refraction strengthened glass, waterproof, dust, anti leakage, Corrosion resistance.



SH-SX01



SH-SX02



SH-SX03



SH-SX04



SH-SX05



SH-SX06



**Texture Of Material:**

1.LED underwater lamp is a kind of LED as the light source, from the red, green, blue, the composition of the mixed color changes in the water, the theme park, theme parks, exhibition, business and art Perfect choice for operation. In order to make the LED underwater better heat dissipation, it is best to put the lamp on the surface of the following.

2 in order to make the LED underwater lamp to achieve a good waterproof effect, the protection effect of LED underwater lights should reach more than IP67, lamps can be placed in the water 5 meters below.

Angle is the 25 controller and the internal control two control mode, the internal control without external controller can be built in a variety of changes mode (up to six kinds of), and external control is to configure the external control

Controller can achieve color changes, the application is currently on the market is also outside the control of the majority.

3.LED underwater lamp is the use of the best ultra-high brightness LED as the light source, the lamp can emit 100000 hours. Each underwater lamp by 360 light sources (120 Red 120 blue light 120 green light). Good light source material to the lamp life longer, and obtain the most satisfactory lighting effect.

4.LED underwater lamp uses a five core wire and control system, the whole system consists of a DMX controller, a power distribution box and can be placed in the water of the lamps and distribution

5.LED underwater lamp has a fixed clip, can adjust the angle of light beam, position. The whole lamp design is perfect, effectively prevent the erosion of bromine and chlorine.



SH-SX07



SH-SX08

**Characteristic:**

All of the imported 1W high power LED as light source, long life, low power consumption, color purity, no pollution, etc.. With DMX512 control system can achieve a variety of colors

Color change effect. Can be long-term immersion underwater work, protection level up to IP68; the use of low-voltage DC power supply, safe and reliable, high quality stainless steel copper shell, beautiful Square, safe and reliable, has a very strong ornamental. Material generally for the stainless steel panel, aluminum lamp body, with a strong anti - corrosion, anti - impact strength. And it's good.

Waterproof design, maintenance is simple, easy to install. General specification for 80-160mm, height of 90-190mm.

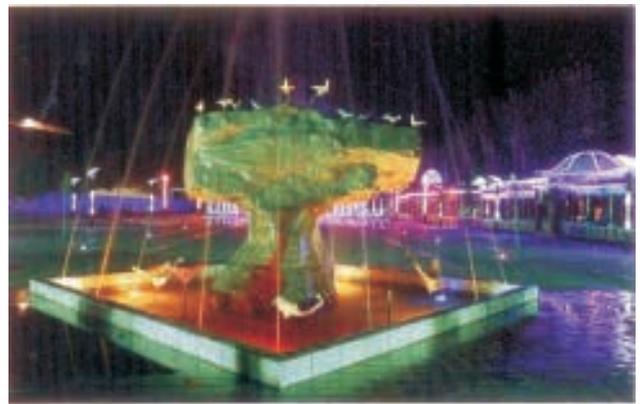
**Light source:**

Underwater light is generally LED light source, LED light source is known as the fourth generation lighting source or green light source, with energy saving, environmental protection, long life, small size, etc.. It is powered by electricity.

When, can send a variety of colors, blew, is generally installed in the park or the spring pool.

**Uses:**

LED underwater lamp is suitable for large swimming pool, fountain, aquarium and other places for underwater lighting.



SH-SX09



SH-SX10



SH-SX11



SH-SX12



SH-SX13



SH-SX14

**Reference Configuration:**

Can show: often bright, colorful

Working voltage: 12V220V (DC, AC)

Each power consumption: 1W

Working temperature: -60 ~+55

Color: red, yellow, blue, green, white, colorful, warm white

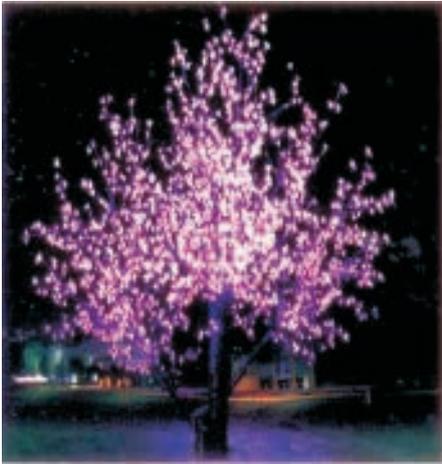
Amount: 80, 60

Size: 150mm

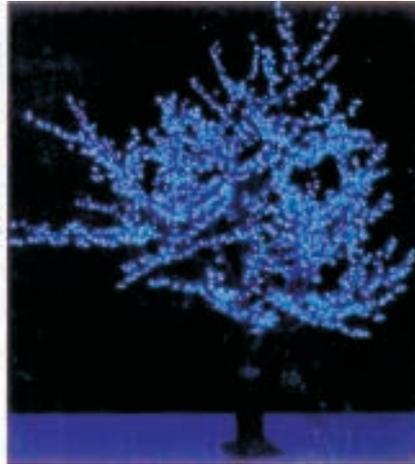
### LED Tree lamp Products:

With the LED tree lights can be lighting, technology is becoming more and more mature, LED tree lights gradually become the first choice for holiday decoration. It is energy saving, high brightness, bright color, shape, long service life Fidelity.

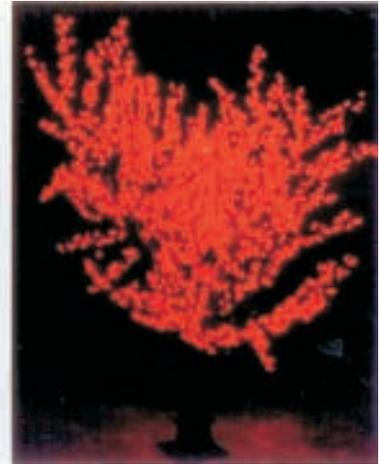
LED tree lamp is a new type of simulation landscape lamp. LED landscape tree lamp environmental protection, long life, beautiful. LED tree trunk blade I simulation material, the light source is LED, the height of the general In 0.8-7 meters (can be designed and produced according to customer requirements), widely used in square, courtyard, leisure square, lobby and other places. LED tree lamp energy saving features make up for durability The lack of traditional landscape lights, LED tree lights are similar lamps and lanterns of revolutionary products. Products cover LED landscape tree lights full range of products, such as: cherry trees, peach trees, maple trees, evergreen, white birch, pine and cypress trees, fruit lamp, willow lamp.



SH-SD01



SH-SD02



SH-SD03



#### Technical Parameters:

Color: red, yellow, blue, white / color

Voltage: DC24V

Power: 1W

Light source: 100pcs

Angle: 120

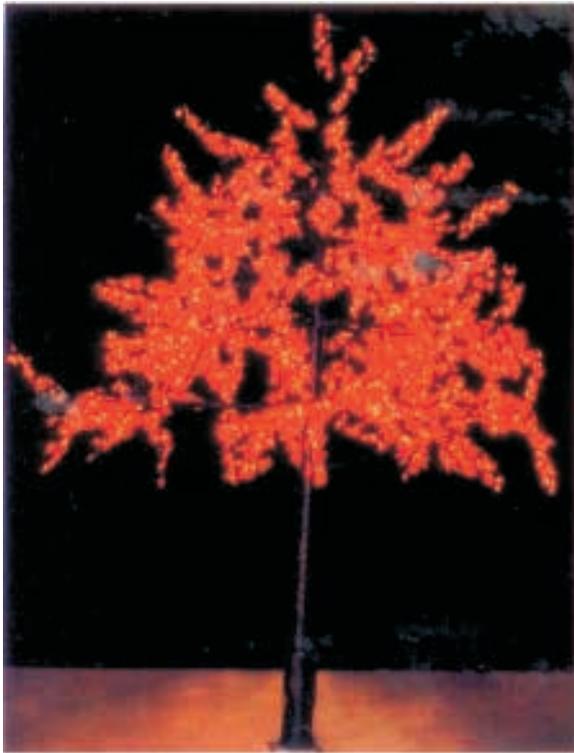
Life: 50000 hours

Protection level: Ip65

Working environment: -20 ~+45

#### Application Range:

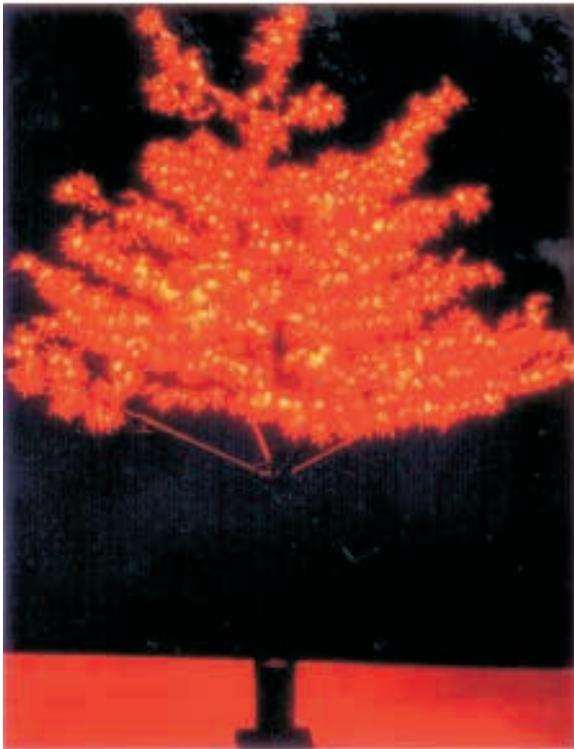
Shopping malls, entertainment places, parks, squares and other places.



SH-SD04



SH-SD05



SH-SD06



SH-SD07



SH-SD08

**LED Tree Lamp Features:**

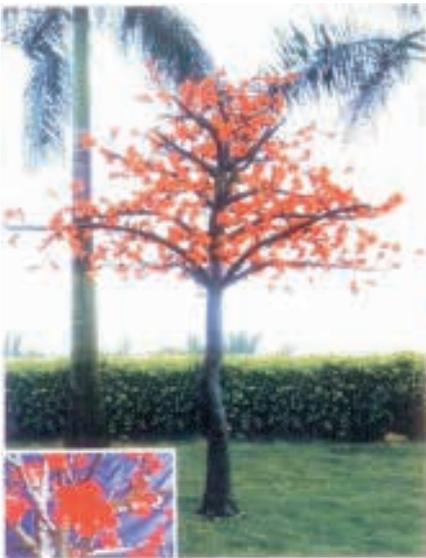
Led tree lights look very realistic, day and night can watch, which is not available in the natural plant, especially the night watch, led tree lamp very charming dream, waterproof outdoor, energy saving, if the selection of the DC power supply is safe and reliable, long life is dotting the beauty of modern urban landscape design.

**LED Tree Lamp Use:**

LED tree lamp can be widely used in parks, green spaces, private gardens, squares, hotels, urban landscape and other night places.

**LED Tree Lights:**

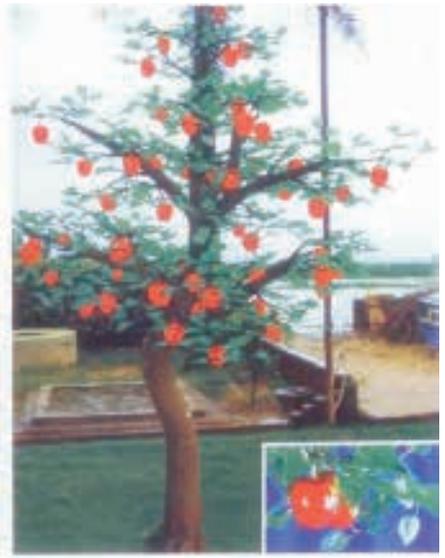
- A.LED tree lights of the branch can be 360 degrees bending will not be broken, easy to carry the box.
  - B.LED tree with lights trunk. The trunk bag, plastic solid, the weather will not rupture discoloration, cold resistance and high temperature (the lowest temperature of - 40 DEG C, the high temperature of 60 DEG C).
  - C.LED tree - tree - shaped appearance and elegant, full of flower petals, bright colors, a realistic feeling of cherry blossoms.
  - D.RGB tree, with eight functional memory controller, the color of the exchange of flashing and gradient flashing, the night has more played the role of decoration and decoration.
  - E.LED light-emitting diode with long service life, low power, the driving voltage of the tree can be 24V, 110V, 240V. According to customer's requirements.
- Now, led tree lights more and more be applied to city lighting, landscape lighting, home decoration and other places, especially Festival is more indispensable scenery line. Led tree lights both after the city lighting, home decoration, decorative lighting project of a popular trend! First LDE tree energy-saving lamps, high brightness, small power is the significant advantages of LED; the second, led tree lights safety, worry sorrow.
- LED cherry tree lamp simulation plant tree lights are increasingly becoming the first choice for holiday decorations. LED cherry tree lights are developed in this context. Its trunk is PU material, real, feel good.
- LED cherry tree light each flower contains a LED, different colors, red and yellow, blue and green, purple and pink, and so on a variety of colors. LED cherry tree light height can be made according to customer requirements. More and more urban lighting and landscaping and decoration Plaza, parks, villas, garden began to change this led cherry tree light, led cherry tree lamp is to beautify the city, festivals indispensable beautiful scenery.



SH-SD09



SH-SD10



SH-SD11



SH-SD12

## LED Landscape Lamp Products

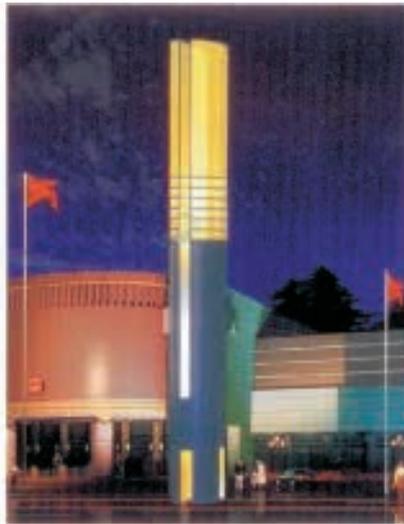
LED landscape lamp is a new type of simulation landscape lamp;  
LED landscape lamp environmental protection, long life, beautiful;  
LED landscape light source is LED, the height is generally in 2-6 meters, is widely used in road, courtyard, leisure square, lobby and other places;  
LED landscape lamp energy saving features make up for the lack of traditional landscape lights;  
LED landscape lamp is a revolutionary product of the same kind;  
LED landscape lamp is a popular trend of home decoration and decoration lighting applications!  
Its energy-saving, high brightness, small power is the significant advantages of LED; it is safe, the use of low, more worry about; its bright color, more than in any other light sources; it has long life, other lamps can not match; modeling realistic, complete simulation of plants, let a person outside the natural landscape. Now whether it is China or foreign countries like the United States, Europe, Southeast Asia and other places has quietly become a new fashion trend.



SH-JG01



SH-JG02



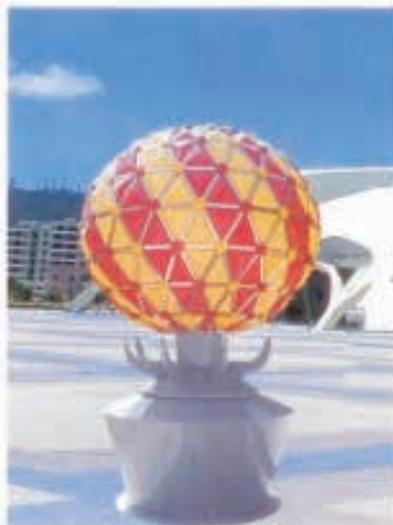
SH-JG03



SH-JG04



SH-JG05



SH-JG06



SH-JG07

**Product Features:**

LED landscape lamp modelling concise, reflecting popular lighting lamp design concept; using digital color light tube, through the intelligent digital controller to realize color chase, scanning, gradual change and flicker change effect, has a strong influence on environment.

**Material Description:**

The lamp body is iron / aluminum or stainless steel or plastic sprayed indecent hot-dip galvanizing of steel body, surface spray outdoor powder and a fastening screw, nut iron / stainless steel

**Technical Parameters:**

Imported PMMA material for acrylic lampshade or cover

Light source: energy saving lamp or high brightness LED light source

Protection level: IP54, IP65, Ip55

**Production Process:**

Treatment of stainless steel polishing by spraying zinc

Applicable places: public places, square, commercial pedestrian street, parks, villas, green belts, hotels, etc..

Note: the installation must ensure that the lamp body is safe.

### LED Traffic Signal Lamp Products

LED traffic signal lamp is made of LED as the light source, traffic lights from red, green, yellow light. A red light means a traffic light.

Traffic light, yellow light said. LED traffic lights, for toll station crossing, traffic command, ensure safety.

1, traffic lights. Traffic lights from red, green, yellow light. A red light means a traffic light, and a green light means the traffic.

2, traffic signs. Including knowledge signs, warning signs, prohibition signs, road signs, tourist area signs, road construction safety signs and auxiliary signs.

3, traffic marking. Divided into: marking, warning marking, prohibition of marking.

4, traffic police command. The traffic police command is divided into: signal and the use of the apparatus of the traffic signal.



SH-LEDJT01



SH-LEDJT02



SH-LEDJT03



SH-LEDJT04

### Motor Vehicle Signal Lamp

Transparent surface size: 300mm, 400mm, 200mm

Transparent surface shape: round, square

Shell material: polycarbonate engineering plastics, aluminum die-casting

Light source: super high brightness LED

Light source color: Red: 625 + 5nm; yellow: 590 + 5nm; green: 505 + 5nm;

Working voltage: 220V + 33V, 50Hz + 5Hz

Power: the motor vehicle signal lamp is less than 18VA; the direction indicator light is less than 15VA

Protection level: Ip54



SH-LEDJT05

### Full Screen Signal Lamp

Full screen signal lamp: the source program uses imported LED. The lamp adopts one-time aluminum die-casting or engineering plastic molding, lamp luminous surface diameter of 300mm, 400mm,

The light emitting element is made of PMMA or PPO material. The lamp body can be any combination and installation anyway. The light emitting unit is also a monochrome, color. The technical parameters are in line with

Road traffic signal lamp GB14887-2003 standard of the people's Republic of china. The signal lamp is suitable for all kinds of small and medium sized junctions.



SH-LEDJT06



SH-LEDJT07

### Dynamic Pedestrian Crossing Lights

Transparent surface size: 200mm, 300mm,

Transparent surface shape: round, square

Shell material: polycarbonate engineering plastics, aluminum die-casting

Light source: super high brightness LED

Light source color: Red: 625 + 5nm; yellow: 590 + 5nm; green: 505 + 5nm;

Working voltage: 220V + 33V, 50Hz + 5Hz

Power: the motor vehicle signal lamp is less than 18VA; the direction indicator light is less than 15VA

Protection level: Ip54



SH-LEDJT08



SH-LEDJT09



SH-LEDJT11

SH-LEDJT10



SH-LEDJT12



SH-LEDJT13



SH-LEDJT14



SH-LEDJT15

### Lane Control Signs

Dimensions: 400\*400, 500\*500, 600\*600

Shell material: polycarbonate engineering plastics, aluminum die-casting

Light source: super high brightness LED

Light source color: Red: 625 + 5nm; green: 505 + 5nm;

Perspective: more than 30 degrees

Working voltage: 220V + 33V, 50Hz + 5Hz

Power: less than 12W

Protection level: Ip65

### Non Motor Vehicle Signal Lamp

Transparent surface size: 300mm, 400mm

Transparent surface shape: round, square

Shell material: polycarbonate engineering plastics, aluminum die-casting

Light source: super high brightness LED

Light source color: Red: 625 + 5nm; yellow: 590 + 5nm; green: 505 + 5nm;

Working voltage: 220V + 33V, 50Hz + 5Hz

Power: less than 12VA

Protection level: Ip54

### Characteristic:

High brightness, color purity

Convenient and the computer interface

Life up to 80000 hours or more

Maintenance free use

Power consumption less than 10W

1 low power consumption, due to the use of LED as a light source, compared with the traditional light sources (such as incandescent lamps, halogen tungsten lamp) with low power consumption, saving energy. Save energy 85%.

2 long life, LED life of up to 50000 hours, 25 times the incandescent lamp, the maintenance cost of the signal lamp is greatly reduced.

3 signal color stability, LED light source itself can emit a signal to the need of monochromatic light, the lens without the need to add color, so it will not cause the lens color fading caused by the defect

. The company adopted the LED light wavelength and color according to the China traffic standard.

4 to avoid false display, the traditional light source (such as incandescent lamps, halogen lamps) in order to get a better match, you need to configure the reflective cup, and LED traffic lights using direct

Light, no such as above, so the brightness and range are significantly improved.

### LED Module Product

LED module product is the LED (light emitting diode) in a certain rule together and then packaged together with LED module of some waterproof processing of the product. Namely LED module.

LED module is a relatively wide range of products in LED products, in the structure and electronic instant noodles also exist great differences, the simple situation with a LED

The circuit board and shell are a LED module, with a number of complex control, constant current source and the associated heat dissipation is better for LED life and light intensity.

### Full Color Control Module

1 the use of well-known brands as a light source, with high brightness, bright light, color uniformity and good consistency and so on.

2.DC12V low voltage, in line with international safety standards, more than the traditional neon lights to save more than 90%.

3 full waterproof design and moisture protection packaging, waterproof grade IP65, working environment temperature of -30 to 65 degrees Celsius, can adapt to indoor, outdoor and other environment.

4 widely used in the three-dimensional light-emitting character, logo, architectural landscape lighting and stage decoration, etc..



SH-MZ01

Product model	LED number	Dimensions (MM)	Voltage (V)	Power (W)	Luminous angle	Shell material
F12Sφ3013	1Red / 1 Green / 1blue	φ30*13	DC12V	0.8	120°	ABS
F12Sφ4527	4Red / 3 Green / 3blue	φ45*27	DC12V	1.0	180°	ABS
F12Sφ7815	3Red / 3 Green / 3blue	78*15*12	DC12V	0.72	180°	ABS

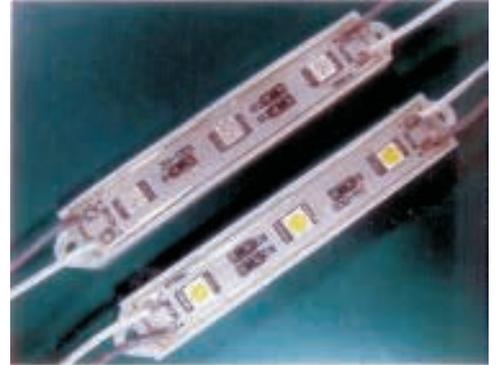
### Man Eating Fish Series Module

1 the use of LED as the light emitting element, is a new generation of green high-tech products. At present, there are five kinds of red, yellow, blue, green, white color, emitting angle greater than 120 DEG; while maintaining the original super high brightness based on, at the same time with light color and moist, consistency and good characteristics.

2. Using constant voltage constant current design, Low Voltage DC12V power supply, high heat silicon or epoxy resin potting to low temperature, waterproof, moisture-proof, anti-corrosion effect, waterproof grade is Ip65.

3 the use of high and low temperature of the best of the best of the silicone wire connection and the installation of a simple and quick fix, that can be fixed, also can use double-sided adhesive paste, the material design to ensure the safety of transportation and installation.

4 widely used in the three-dimensional light-emitting character, logo, light box, landscape layout and stage decoration, etc..



SH-MZ01

Product model	LED number	Dimensions (MM)	Voltage (V)	Luminous angle	Waterproof grade
B12S4512*3	3	45*12*14	DC12V	120°	IP33
B12S7512*3	3	75*12*14	DC12V	120°	Ip33
F12S4515*3	3	45*15*14	DC12V	120°	IP65
F12S7815*3	3	78*15*14	DC12V	120°	Ip65
F12S2828*4	4	28*28*14	DC12V	120°	Ip65
F12S3232*3	4	32*32*14	DC12V	120°	Ip65
F12S4040*5	5	40*40*14	DC12V	120°	Ip65
F12S7815*5	5	78*15*14	DC12V	120°	Ip65
F12S7815*6	6	78*15*14	DC12V	120°	Ip65

## Straw Hat Series Module

1. The high luminance monochrome straw LED as light source, and is equipped with the fixing groove installation recommendations, namely available double-sided glue fixed, can also with screws, substrate design ensure transportation, use or impact not fracture, providing security.

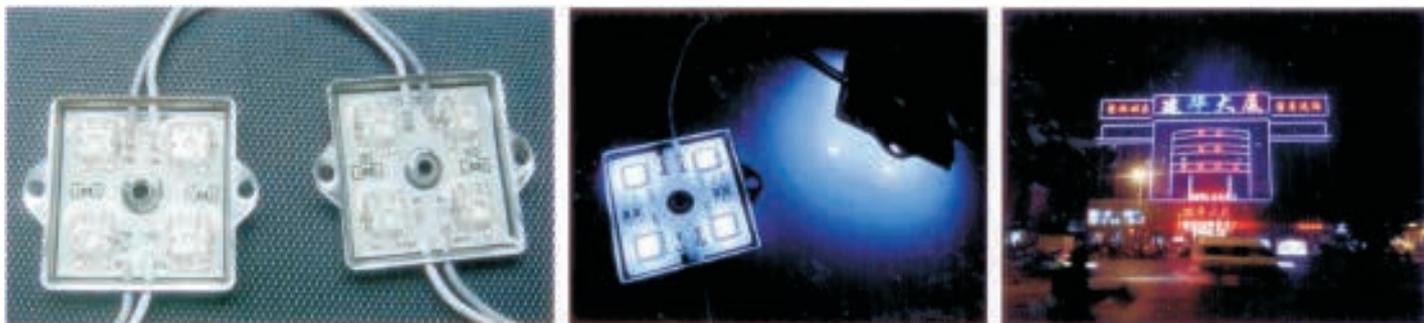
2 has been widely used in three-dimensional light-emitting character, logo, light box, landscape layout and stage decoration, etc..



SH-MZ03

Product model	LED number	Dimensions (MM)	Voltage (V)	Luminous angle	Waterproof grade	Color
B12C1313*1	1	13*13*12	DC12V	90°	IP33	Red /yellow/ blue /green/ white
B12C4515*3	3	45*15*12	DC12V	90°	Ip33	
F12C7815*3	3	78*15*12	DC12V	90°	IP65	
F12C2828*4	4	28*28*12	DC12V	90°	Ip65	
F12C7815*5	5	78*15*12	DC12V	90°	Ip65	

## LED Chip Module



SH-MZ04

Product model	LED number	Dimensions (MM)	LED type	Voltage (V)	Power (W)	Waterproof grade	Color
F12T2607*2-1	2	26*7	3528	DC12V	0.24	IP65	Red / yellow / White / Green / blue
F12T3912*3-1	2	39*12	3528	DC12V	0.24	Ip65	Red / yellow / White / Green / blue
F12T6612*3-1	2	66*12	3528	DC12V	0.24	Ip65	Red / yellow / White / Green / blue
B12T6012*2-2	2	60*12	3020SMD	DC12V	0.36	IP33	Red / yellow / White / Green / blue
B12T6012*3-2	3	60*12	3020SMD	DC12V	0.36	Ip33	Red / yellow / White / Green / blue
B12T6012*2-1	3	60*12	3528SMD	DC12V	0.24	Ip33	Red / yellow / White / Green / blue
B12T6012*3-1	3	60*12	3528SMD	DC12V	0.24	Ip33	Red / yellow / White / Green / blue
B12T3535*3-3	3	35*35	5050SMD	DC12V	0.72	Ip65	Red / yellow / White / Green / blue
F12T3535RGB3	3	35*35	5050SMD	DC12V	0.72	Ip65	Full color
F12T3535*4-3	4	35*35	5050SMD	DC12V	0.72/1.44	Ip65	Red / yellow / White / Green / blue
F12T3535*4-1	4	35*35	3528SMD	DC12V	0.24/0.48	Ip65	Red / yellow / White / Green / blue
F12T5010*4-1	4	50*15	3528SMD	DC12V	0.24/0.48	Ip65	Red / yellow / White / Green / blue
G12T7515*3-3	3	75*15	5050SMD	DC12V	0.72	Ip33	Red / White
B12T7815*3-3	3	75*15	5050SMD	DC12V	0.72	Ip65	Red / White
B12T4515*3-3	2	48*15	5050SMD	DC12V	0.72	Ip33	Red / yellow / White / Green / blue
F12T4815*2-3	2	48*18	5050SMD	DC12V	0.72	Ip65	Red / yellow / White / Green / blue

## LED Perforated Word Product

Led punch word is mainly use LED lamp integrated into a media on the formation of shining words, punch holes in the word formation of rich colors, a variety of color options, such as three color, colorful, full color; with simple installation and convenient replacement, energy saving and environmental protection features; LED drilling has been widely used in all walks of life. Led punch word is mainly used for outdoor luminous characters, hotel outdoor signs, Digital Plaza, signs, building property signs, shopping plaza showdown.



SH-DKZ01



SH-DKZ02



SH-DKZ03

Product model	Product name	Voltage	LED number	Color	Company	Luminous angle	Wavelength size	IP grade
F5 φ9	R1 single lamp perforated word	DC5V	1	Red	PCS	140°	623nm φ8mm	IP68
F5 φ9	Y1 single lamp perforated word	DC5V	1	yellow	PCS	140°	589nm φ8mm	Ip68
F5 φ9	B1 single lamp perforated word	DC5V	1	blue	PCS	140°	465nm φ8mm	Ip68
F5 φ9	G1 single lamp perforated word	DC5V	1	green	PCS	140°	550nm φ8mm	Ip68
F5 φ9	W1 single lamp perforated word	DC5V	1	white	PCS	140°	6500k φ8nm	Ip68
F8 φ12	RGB1 single lamp control piercing light color	DC5V	1	Red green blue	PCS	140°	623/520/465 φ12nm	Ip68
F8 φ12D	RGB1 single lamp color point control piercing light	DC5V	1	Red green blue	PCS	140°	623/520/465 φ12nm	Ip68
F5 φ20	Y3 lamp perforated word	DC5V	3	yellow	PCS	140°	589nm φ20nm	Ip68
F5 φ20	B3 lamp perforated word	DC5V	3	blue	PCS	140°	465nm φ20nm	Ip68
F5 φ20	G3 lamp perforated word	DC5V	3	green	PCS	140°	520nm φ20nm	Ip68
F5 φ20	W3 lamp perforated word	DC5V	3	white	PCS	140°	6500k φ20nm	Ip68
F5 φ20	RGB1 color word perforation	DC5V	3	Red green blue	PCS	140°	623/520/465 φ20nm	Ip68
5v-200	Elevator controller	DC5V	Size: 120*80; can control 500 points					
5v-2000	Point control	DC5V	Size: 120*80; can control 2000 points					

**Characteristic:**

LED punch word beads to simplify, arbitrary, give full play to advantages, any combination of light source. LED exposed light-emitting word, a large outdoor LED advertising production is more simple.

Special bayonet design, punch holes in the installed directly, quick installation time, ensure reliable connection also completely get rid of the manual welding, to avoid the LED from the latent damage, greatly shorten the production cycle, reduce cost of installation and maintenance, reduce the loss of bad, completely solve such engineering maintenance difficult situation.

All kinds of sheet metal punch can be used (e.g., electrolytic plate, aluminum plate, iron plate, stainless steel plate, etc.).

The Taiwan high power chip, strong illuminance, color consistency of good, color saturation, long service life, attenuation characteristics of low, ensure the quality of products.

Product outstanding scientific waterproof (IP68) compression performance, to ensure that the products of outdoor use.

The parallel wiring, breaking the traditional "one does not light, the lights are not bright" fault.

Led two-way, and equipment separation type design, do not need to understand the circuit, does not need to know the waterproof technology, can replace led, easy maintenance, completely solve such engineering and maintenance difficult problem, also beads attached to one year free warranty value-added after-sales service.

Power, average an outdoor word about 300-400 star LED lamp, power consumption is about 15W. That is to say eight hours every day light, 8 days good point about once the electricity.

Can let users in a more secure environment, is very suitable for outdoor lighting, signs and home lighting applications, and increase the visual distance.

Intelligent control system, can produce gradient, jump, chase and other effects, and can achieve asynchronous and synchronous control, random arrangement to meet different customer requirements.

The lamp is small in size, light in weight, and the cost of freight is negligible.



## LED Lighting Products

The LED lamp is used as light source lamp. The traditional lamp halogen lamp, low luminous efficiency, more power consumption, increased by exposure to ambient temperature, short service life. LED in the light of the principle of energy saving, environmental protection is far superior to the traditional lighting products. And the unidirectional LED light to form a perfect lamp with a light support.



SH-TSD01



SH-TSD02



SH-TSD03



SH-TSD04



SH-TSD05



SH-TSD06



**Optical Properties:**

LED to provide taxi half width of monochromatic light due to the semiconductor energy gap decreases with increasing temperature, therefore Tasso emission peak wavelength with increasing temperature and growth, namely red shift of the spectrum, temperature coefficient +2~3A. LED and forward current is approximately proportional to the L. Current increases, and the luminous intensity is also increased.

**Service life:**

LED spotlight due to take solid light source of the light, life depends on the solid LED light source and the drive part of the heat radiating, at present LED light source life has reached more than 1 00000 hours, along with the continuous development of LED technology and application technology, a lot of popularity, in the drive and cooling basically achieve the pride for the ideal state, commercially available high quality LED lamp life basically reached 10000-50000 hours, almost 10-50 times of the ordinary halogen lamp.

Energy saving LED lighting products for more than 80%, almost maintenance free, parts must be frequently changed the problem does not exist. About half a year down the cost savings can be in exchange for the cost. Green environmental protection type of semiconductor point light source, the light is soft, the spectrum is pure, is advantageous to the worker's eyesight protection and the health.

**Structure:**

The LED lamp is mainly composed of a casing, beads, aluminum plate, driving structure, concrete analysis is as follows:

LED lamp shell: paint, plating two shell. Set comprises a lamp cover, lamp cup, a base, a aluminum plate, lens, screw for MR16, GU10 lotus shaped, beautiful, generous, thermal performance.

LED lamp beads: hexapod RGB, spotlight, red: 40lm, green: 60lm, Blu ray: 15LM, using 350mA current

LED lamp drive: universal input voltage (220V) constant current output, to ensure the safety of the use of high power LED, high power factor greater than 0.98 and power isolation, isolation voltage of 3000V over temperature protection, short circuit protection, open circuit protection can drive all the 3W LED (red and yellow) the use of ceramic capacitors, long life design, up to 50000 hours, high reliability, the whole lamp can be through safety testing, isolation voltage reached 3750V, through the EMC test, small volume 24mm\*18mm.

**Characteristic:**

1 energy saving: the same power of the LED lamp power consumption is only 10% of incandescent lamps, compared with fluorescent lamps.

2 long life: LED lamp can work 50000 hours, more energy than fluorescent lamp.

3. Adjustable light: Previous dimmer is have been the incandescent lamp, incandescent lamp dimming time red; it is difficult to see the fluorescent lamp dimmer, which is dimming technology for many years did not develop the main reason; now LED can also adjust the light and whether it is bright or dark light are the same color (color temperature will remain basically unchanged), which was significantly better than the white flag lamp dimmer.

4 can be frequent switch: LED's life is calculated by the time, even if the switch is not affected for thousands of times per second LED life, in the decoration and other need to frequently light off occasions, LED lights by absolute advantage.

5 colors: there are white, warm white, red, green, blue and other colors, whether it is living in the living room, the lights are used to decorate the small lights or neon lights, are very bright.

6 low heat: like a spotlight, a lot of 220V lamp with not just a few days is broken because of fever. 12V halogen lamp heating although the amount is lower than 220V lamp, but also because of the lack of power transformers and other reasons, the brightness is not up to the nominal value. With the LED lamp, the transformer can not work for a long time.

**Uses:**

LED lamp is mainly used for decoration, commercial space lighting and architectural decorative lighting, with the development and progress of LED technology, at present on the market LED projection lamp performance advantages very prominent, the high purity aluminum reflector, the light beam is the most accurate, reflection effect best; symmetrical narrow angle, wide angle and asymmetric light distribution system, and projection lamps are accompanied by a scale plate, people can be according to the scale is convenient to adjust the irradiation angle. In addition, in order to facilitate maintenance, LED projector lamp is used to replace the light bulb. Lighting decoration effect first, LED lamp can realize the gradient, jump, color, flicker, flicker, gradient alternation and chase, scan and other dynamic effects. LED projection lamp and led underwater lights, led buried lights, led wash wall lamp, etc. can be used independently, can also interact with, to produce more variable results, and LED projection lamp is mainly used for single building, historical buildings exterior lighting, green landscape lighting, building light through lighting, advertising lighting license plate, billboard lighting and other specialized facilities lighting, and bars, discos and other places of entertainment atmosphere, lighting, etc., the market prospect is considerable.



### LED Wall Lamp Products

LED wall lights indoor decorative lamps, usually with white glass lampshade. LED light bulb power in 15-40 watts, light and harmonic, it can be decorated elegant environment, beautiful. Especially suitable for the wedding room. LED lamp type and style is more, common LED ceiling lamps; the LED color lamp; LED bedside wall lamp; led before the mirror wall lamp and so on. Ceiling lamp is installed in the balcony, floor, corridor, corridor and bedroom, suitable for long light. Color wall for the festival, the festival when. Long bedside lamp in the top left of the bed, the rotation direction of the beam, lamp can be concentrated, easy to read. Mirror mirror on the wall decoration around the dressing room use.

LED wall lamp mounting height should be slightly more than 1.8 meters above eye level. LED lamp lighting should not be too large, so more rich artistic appeal, wall lamp shade selection should be based on the wall color, white or cream yellow wall, appropriate uses light green, light blue lampshade. The lake is green and blue wall, to use the milky white, pale yellow, brown shade. In this way, a large area in the color of the background with Qiangbu, a prominent wall lamp, give a person with elegant and fresh feeling.

LED wall lamp connection wire to use light color, easy to paint on the wall paint, to keep the wall clean and tidy. In addition, first on the wall dug a just wires embedded in the slot and the wire embedding, filled with lime, and then painted on the wall of the same colour coating.



SH-QB01



SH-QB02



GX-QB09



SH-QB03



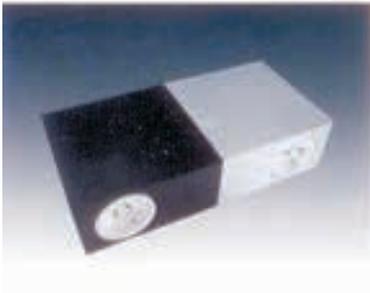
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SH-QB05



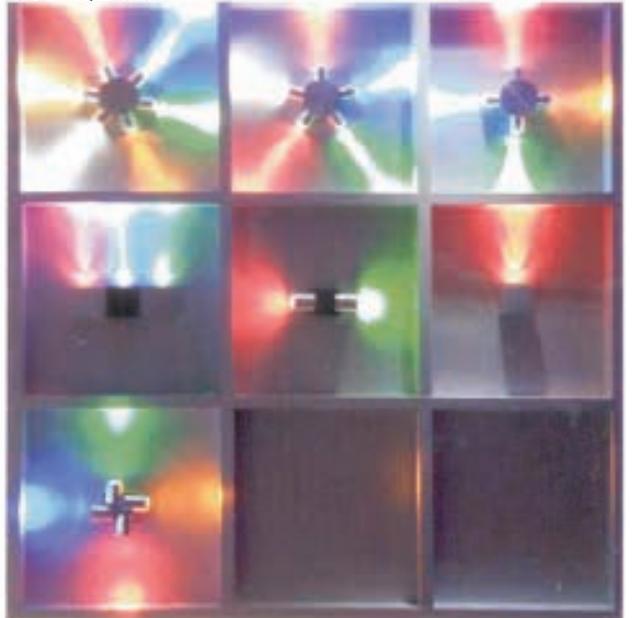
SH-QB06



SH-QB07



SH-QB08





SH-QB10



SH-QB11

#### Class LED Wall Lamp:

The living room wall: general living space high, to use the Trident to five forked incandescent lamp. The living room is magnificent. If the living room space is low, led ceiling lamps with LED lights so that the living room becomes bright and generous, has the sense of the times. Distribution of LED lamp beside the sofa, sofa side table again with decorative craft LED desk lamp, if wall in the vicinity of resettlement lanterns lower led wall lamp, so the effect will be better. Not only read a book, a local newspaper and talk in the living room lighting, also add a cordial and harmonious atmosphere. TV can be installed behind the wall lamp, small LED lamp, soft light, in order to protect their eyesight.

LED lamp of the restaurant: the restaurant Louvre should with the appearance of bright and clean glass; plastic or metal material, in order to keep clean, not knitted; yarn woven fabric lampshade or modelling complicated; pendant lamp shade. The light source adopts yellow fluorescent lamp or incandescent lamp light, the warm color as a warm. If the warm color of the wall in the proper configuration of the near wall zone; will the dinner guests more lively atmosphere, and can enhance the appetite.

LED bedroom wall: bedroom light with a soft, warm tones. Available led wall lamp, floor lamp to replace the central interior lamps, the LED lamp should be with low surface brightness of diffuse material lampshade. Above the bed walls, installed a lamp that dark brown carved glass wall lamp, with simple, elegant, deep flavor. On the bedside table available show table, if it is with a double bed, on both sides of the bed, a lamp, deserve to go up the light switch LED lamps and lanterns to one of them read read another person is not affected by the light interference.

Led wall lamp of bathroom: bathroom is a place to relax, so to use soft and bright light evenly illuminate the entire bathroom. A small area of the bathroom, only to install a LED ceiling light is enough. Larger bathroom, can use lighting luminous ceiling or diffuse lighting the lamps with LED lamp. Bath between ease of use LED lamp replace the LED ceiling lamps, which can avoid condensation of water vapor in the luminaire effect lamp lighting and corrosion. With the light into the bathtub wall do lighting, bath, exudes a warm atmosphere, especially to physical and mental relaxation. But it should be noted that, LED wall necessary moistureproof function.



GX-QB12

## LED Fluorescent Lamp Products

LED fluorescent lamp with super bright white hat Taiwan LED as light source, shell glass and imported PC transparent shell. Diameter 30mm, length 60cm, 120cm, 15W, 8WLED, 8W,, 40W fluorescent lamp brightness is equivalent to 20W fluorescent lamp, 15WLED fluorescent lamp with the traditional fluorescent lamp. Service life at 50000 -8 million hours. Supply voltage - 260V (AC), without qihuiqi and ballast, start fast, small power, no stroboscopic, not easy to visual fatigue, 6000K cold light source to person visual sense of cool and refreshing feeling. It not only energy-saving super more environmentally friendly, or national energy-saving green lighting project, focus on the development of one of the products, is to replace the traditional fluorescent lamps currently main products.

LED installation is very simple, the original fluorescent lamp is installed on the LED fluorescent lamp, will be removed from the. LED fluorescent lamp energy saving up to 10, life is more than 50% times the ordinary lamp, almost free maintenance.



GX-RG01



GX-QB02



GX-QB03



### Characteristic

LED fluorescent lamp with high quality, durable, energy saving as the main feature, the projection angle adjustment range, 15W brightness is equivalent to ordinary 40W fluorescent lamp, high temperature, moisture, waterproof, anti leakage. The use of voltage: 110V, 220V optional, optional cover glass or PC material. The lamp and fluorescent lamp.

LED fluorescent lamp using the latest LED light source technology, digital design, power saving up to 70%, LED 12W fluorescent lamp 40W fluorescent lamp LED fluorescent lamp life is 10 times more than ordinary lamps, almost free of maintenance, no need to replace the lamp, ballast, starter. Green environmental protection of semiconductor light source, light, light, spectral line, is conducive to the protection of the user's eyesight and physical health. 6000K cold light source gives people a cool and refreshing feeling, the human nature of the illumination difference design, more conducive to focus, improve efficiency.

- 1 applicability: the adaptability and reliability of all kinds of harsh environment at home and abroad have improved;
2. The color rich: there are three primary colors (red, green, and blue) display unit box, the electronic screen display rich color, high saturation, high resolution, display dynamic image high frequency;
- 3 high brightness: the use of ultra high brightness LED, the sun is far away from the bright light;
- 4 effect is good: the use of static scanning technology and modular design technology, reliability, stability, higher;
- 5 display mode: support for multiple display modes.

**Advantages:**

1 environmentally friendly lamps, protect the earth

Traditional fluorescent lamps contain a large amount of mercury vapor, if broken Mercury will be sent to the atmosphere. But the LED fluorescent lamp is not used at all, mercury and LED products are not lead, to protect the environment. LED daylight lamp is recognized as the twenty-first Century green lighting.

2 efficient conversion, reduce fever

Traditional lamps will produce a large amount of heat, and the LED lamp is the power of the whole into light, will not cause energy waste. And on the file, clothing will not produce the phenomenon of fading.

3 scenarios, no noise

The LED lamp does not produce noise, the use of sophisticated electronic equipment a good choice for the occasion. Suitable for libraries, offices, and so on.

4 soft light, protect the eyes

The traditional fluorescent lamp using AC, it will have 100-120 times per second strobe. LED lamps and lanterns is the direct conversion of AC into DC power, will not produce flashing phenomenon, protect the eyes.

5 no UV, no mosquitoes.

LED lamps will not produce ultraviolet rays, so there will be a lot of mosquitoes around the lamp. Indoor will become more clean and sanitary.

6 voltage adjustable 80v-245v

The traditional daylight lamp is lit by the high voltage of the rectifier, which is unable to light when the voltage is reduced. The LED lamps in a certain range of voltage can be lit, but also adjust the brightness of light.

7 save energy, longer life

LED fluorescent lamp power consumption is 1/3 of the traditional fluorescent lamp, life is 10 times the traditional fluorescent lamp, can be used for a long time without replacement, reduce labor costs. More suitable for difficult to replace occasions.

8 strong and reliable, long-term use

LED lamp body itself is used by the epoxy resin and not the traditional glass, more robust and reliable, even though it is not easy to hit the floor on the floor, you can use the LED.

9 compared with traditional fluorescent lamps, LED fluorescent lamp without ballast, without starter, no flicker.

10 maintenance free, frequent switch will not cause any damage.

11 safe and stable quality, can withstand the 4KV high voltage, low heat dissipation, can work at low temperature -30, high temperature 55.

12 there will be no impact on the environment. No ultraviolet and infrared rays, no harmful materials, such as mercury, protect the eyes, there is no noise.

13 good anti vibration, easy to transport.

**Material Composition And Appearance:**

1. LED fluorescent lamp is made up of ultra low power LED PC light brightness, cover, high radiating aluminium and power supply.

Light source 2. LED fluorescent lamp using the hat head and SMD beads of two types. The commonly used 3528, 5050 SMD beads, 1W high power etc..

The LED fluorescent lamp shell there are two: 1) transparent PC shell, high transmittance, see inside beads; 2) translucent matte casing, revealing light downier.

4. LED fluorescent lamp with built-in power supply, working voltage is wide, from 85V to 265V can be used.

5. LED fluorescent lamp is made of red, yellow, blue, green, white, warm white.

**Applicable Scope:**

1 large factories, production workshop, office, office interior lighting;

2 shopping malls interior lighting;

3 underground parking, 24 hours to use, power saving is very considerable;

4 hospital indoor lighting;

5 school classroom lighting;

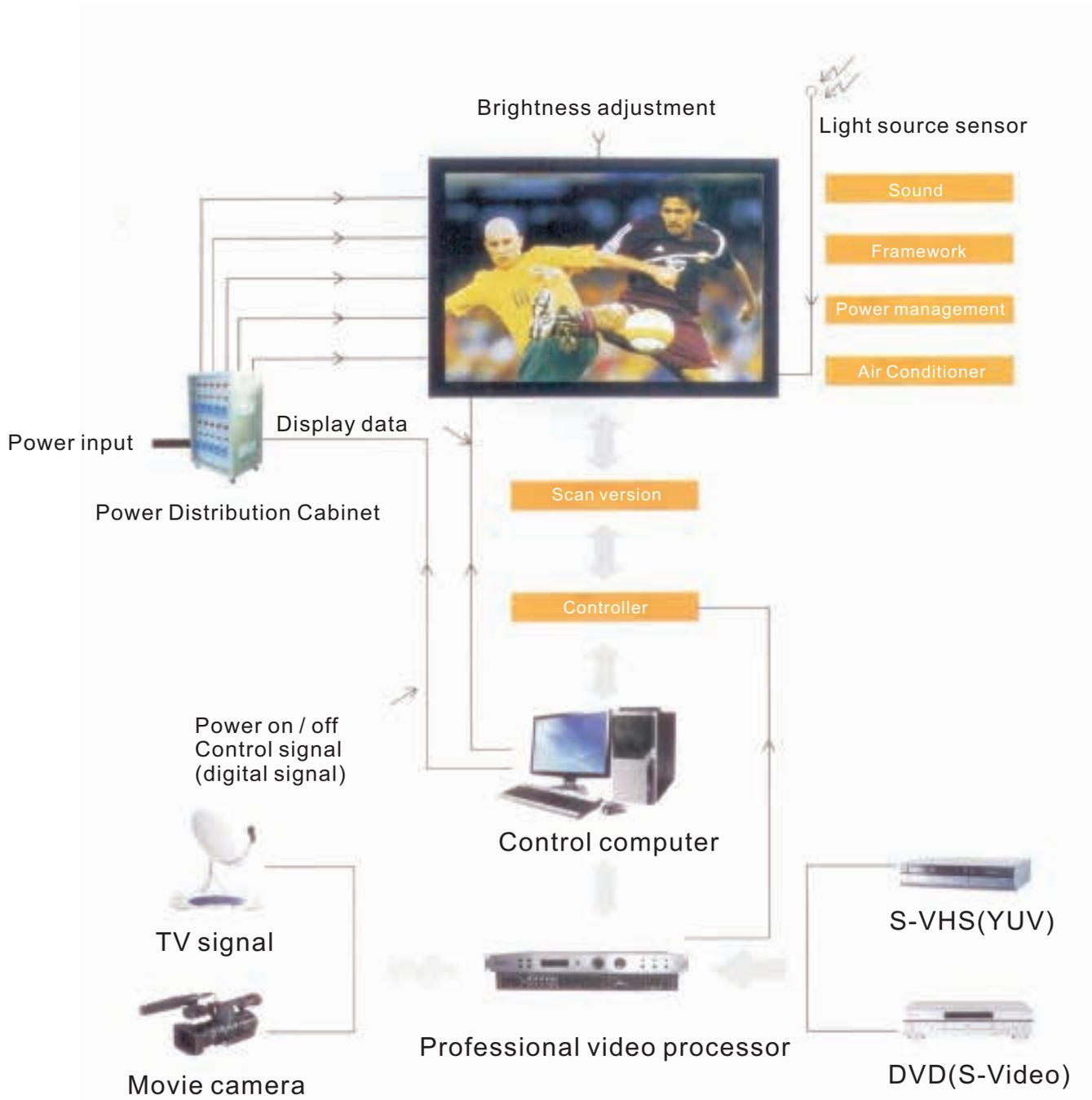
6 family, at the present stage of LED fluorescent lamp production costs are still relatively high, the domestic family rarely used.



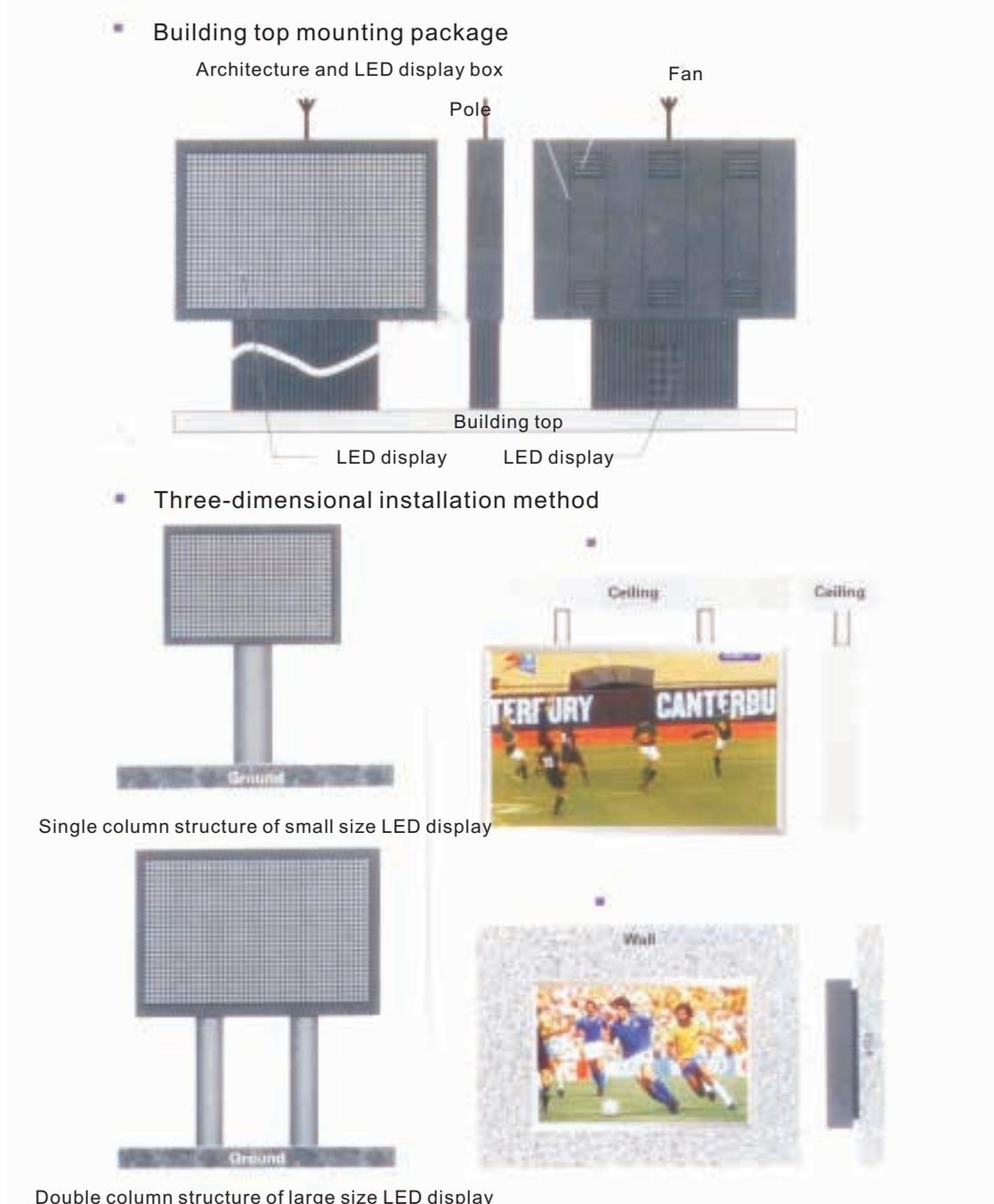
### LED Display Products

LED display is also called electronic screen or floating word screen. Is composed of LED dot matrix, through the red, blue, green LED lights to display text, pictures, animation, video, content can be replaced at any time, the parts are modular structure of the display device. Usually composed of display module, control system and power system. A display module is composed of a LED lamp dot matrix, responsible for light-emitting display; control system through the control region corresponding to the bright lights can make the screen display text, pictures, video and other content, monochrome, two-color screen is mainly used to broadcast text, full color is mainly play the animation; power system is responsible for the input current and voltage for display screen needs of voltage and current.

### LED Display System Connection Diagram



## LED Display Of various Installation Methods



### Features:

1. bright light intensity, in the visual range of direct sunlight to the screen, the display is clearly visible. Super gray level control has 1024-4096 level gray control, display color 16.7M above, color is clear and vivid, three-dimensional feeling strong.
2. static scan technology, the use of a static latch scan mode, high power drive, fully guarantee the luminous brightness.
3. automatic brightness adjustment, with automatic brightness adjustment function, can be in different brightness environment to get the best player effect.
4. comprehensive use of imported large-scale integrated circuit, the reliability is greatly improved, easy debugging and maintenance.
5. all-weather work, fully adapted to outdoor all kinds of harsh environment, anti-corrosion, waterproof, waterproof, lightning, lightning, the overall performance is strong, cost-effective, good performance, pixel can be used P10MM, P16MM and other specifications.
6. Advanced digital video processing, distributed technology scanning, modular design / constant current static driving, automatically adjust the brightness, super bright pure color pixel, clear images, no jitter, and ghosting, to prevent distortion. Visual display, animation, graphics, text, pictures and other information display, networking, remote control.

### Classification Of LED Display

1 color by color can be divided into:

Single color display: single color (red, green, yellow, etc.).

Two color display: red and green dual color, gray level 256, can display 65536 colors.

Full color display: red, green, blue three colors, 256 grayscale full color display can display one thousand colors 600.

2 according to the display pieces:

LED digital display: display device for 7 yards of digital tube, is suitable for the production of always screen, interest rate, etc., display digital electronic display.

LED dot matrix graphic display: display device has many uniform array of light-emitting diode composed of dot matrix display module, suitable for playing text, image information.

LED screen display: display device is composed of many light-emitting diodes, video, animation and other video files can be displayed.

3 by using the occasion classification:

Indoor display: the luminous point is small, the general 3mm- Phi Phi 8mm, display area is generally a few to tens of square meters.

Semi outdoor display: pixel size between indoor and outdoor display; common in bank, shopping malls, hospitals or lintel on.

Outdoor display the general area of dozens of square meters to several hundred square meters, high brightness, can work in the sun, wind, rain, waterproof function.

4 according to the luminous point diameter and pitch classification:

Indoor screen (in diameter): Phi 3mm, Phi 3.75mm, Phi 5mm.....

PH10, PH14, PH12, PH16,, PH20, PH25, PH37.5, PH31.25.....

5 according to the series classification can be divided into: LED curtain wall, LED soft screen, LED floor screen, LED screen, LED box screen (electronic screen and traditional screen), LED ultra-thin screen, LED arc screen (that is, special-shaped screen).

Review of technical superiority of LED display

Now the common indoor full-color scheme comparison:

1 dot matrix module scheme: the earliest design scheme, by the development of the indoor pseudo color dot matrix screen

Advantage: the cost of raw materials has the advantages, and the production process is simple, quality is stable.

Disadvantages: color consistency is poor, mosaic phenomenon is more serious, display effect is poor.

2 single lamp program: to solve the problem of the color of the dot matrix, using a scheme of outdoor display technology, and the outdoor pixel multiplexing technology (also known as pixel sharing technology, virtual pixel Technology) transplanted into the indoor display.

Advantages: color consistency is better than the dot matrix module.

Disadvantages: mixed color effect is not good, the perspective is not big, horizontal direction or so to see a color. Processing is more complex, anti-static requirements. Real pixel resolution to achieve more than 10000 points.

3 PATCH scheme: the scheme of the display element of the display element.

Advantages: color consistency, visual angle and other important realistic indicators are the best in the existing program, in particular, the three one is a combination of color and color effect is very good.

Disadvantages: Processing Technology trouble, the cost is too high.

4 sub table stickers program: in fact, a single lamp program is a kind of improvement, and now is still in perfect.

Advantage: in the display of color consistency, visual angle and other primary indicators and the label is not a big difference, but the cost is low, the display effect is good, the resolution can be more than 17200.

Disadvantages: processing is still more complex, anti-static requirements.

### LED Display Technology Advantage

(1) the import high quality LED tube core making full-color display: has the advantages of large viewing angle, low power consumption, uniform color, screen thin and thick, screen body, light weight, the failure rate is low and easy maintenance.

(2) PCTV card: the card is a collection of performance excellence, capture, video capture and other functions of the multimedia display card, the card has a Studio systems Pinnacle is a highly acclaimed software.

(3) using the latest DIV interface technology: DVI interface (Visual Internet Digital) is the industry standard for PC and digital flat panel display interface, it is known that the computer is a digital, that is, all the information is the amount of data, but

(3) DIV DIV (Digital Interface PC) is the industry standard for digital flat panel display (Visual). It is known that the computer is digital, which is the most widely used CRT display (such as TV set). So a number / mode conversion (D/A) must be done before the computer is sent to the display, which causes the loss of information and the defect of the display effect. LCD, HDTV, PDP, and other new generation of the display itself is a digital, with the traditional way, the output of computer graphics card (Analog) and then digital conversion (A/D) can be sent to the display, which has caused new losses and trouble. Using DIV interface, the development of LED display system can be directly from the PC DIV interface, do not need the special graphics card, such as the Milky way, do not need special collection card, can not be limited by PC, because there is no D/A and MD conversion process, to avoid the loss of image details, so that the computer image in the display screen. At the same time because the DVI is the industry standard so although the bandwidth of up to 83MHZ, also can be a good job. Now DVI can support VGA (640\*480) to HDTV (1920\*1080) and QXGA (2048\*1536) all the display mode. In addition to the use of DIV interface, the development of the LED display system, in obtaining a stable and reliable display data on the basis of many important functions can be integrated together

(4) the indoor full color system: the chip in addition to complete the display data is assigned to a task, its characteristics is received 8 bits (8bit) display data into a 12 bit output PWM pulses, show the realization of 4096 (12bit) gray-scale control, ensure the nonlinear 256 visual gray 'data transmission amount of large complex systems.

(5) the use of constant current drive: the circuit technology is mature and reliable operation, has been in full color display widely used, high ratio of performance to price, for the companies in a number of commonly used constant current drive chip, the better to solve such pipe pressure drop discrete defects and good performance to eliminate mosaic.

(6) optical fiber transmission, non fading optical fiber transmission technology;

Optical fiber transmission frequency bandwidth, communication capacity;

The fiber transmission loss is low, the relay distance is long;

Anti electromagnetic interference in optical fiber transmission;

The fiber line diameter, light weight, soft;

Fifth, the optical fiber transmission except has more prominent advantages, but also has resistance to stress corrosion, anti nuclear radiation, energy consumption low.

### Function Of LED Display

1, to play the role of propaganda, to attract customers.

2, up to the store decoration, improve the role of enterprise class.

3, play the role of lighting, new in order to be different.

4, to play the role of universal knowledge. (can be used to play small information of enterprise products, the relevant industry knowledge)

5, the role of the bulletin board. (promotion, recruitment information release)

6, to heighten the atmosphere. Through the display screen can play a superior leadership and a variety of distinguished guests to visit and guide the welcome words, a variety of major festivals, such as the celebration.

7, play a warning role, often used in road traffic LED navigation instructions, etc..

It is undeniable that the ultimate goal is to set up the advertising business card advertising information, to attract target customers, as far as possible to maximize profits. And LED advertising is to achieve this purpose to become the first choice of corporate propaganda.





Sihon Electronics Co., Ltd.