

Features

1. 220V AC direct, eliminating the need and failure of DC driver.
2. Aluminum PCB with PC cover, IP66 suitable for outdoor use.
3. High efficiency & high power factor with $PF > 0.9, \eta > 90\%$.
4. Wide input voltage range from 85-240VAC.
5. Power supply with filling and solidifying technology, safe and environmental protection.
6. Two length in 0.6m & 1.2m for option
7. 6PCS a group, single bar cuttable

Application

Back lit light box with depth over 15cm.

Installation

Fix by clips and screws



Optical & Electrical Parameters

Model No.	Light Color	Color Temperature (K)	Beam Angle	Typical Luminous Flux value(lm/pc)	Ra	Efficacy (lm/W)	Voltage (V AC)	Power (W/pc)
A1 2.0-0626	W	2700-10000	120°	515	70+	105.8	85~240	5
A1 2.0-1252	W	2700-10000	120°	1078	70+	104.9	85~240	10.3

Other Parameters

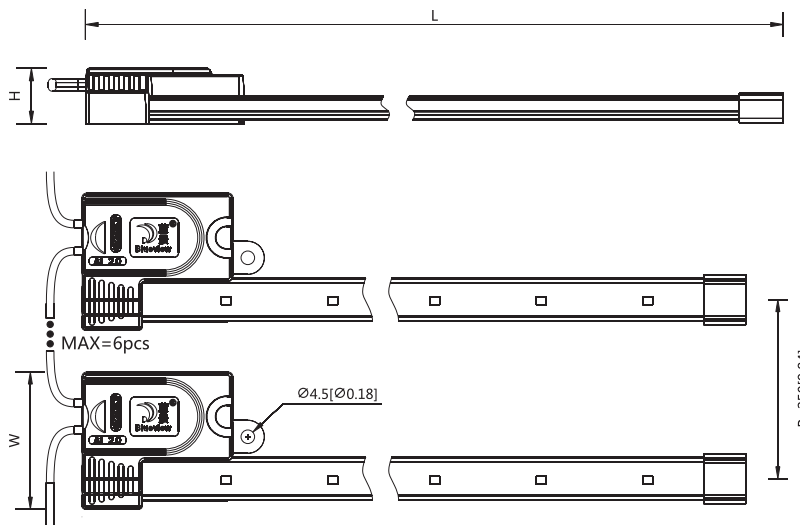
Model No.	LED Quantity (pcs/pc)	Product Size L*W*H(mm)	Standard Packing Quantity (pcs/group)	Max Run (pcs/group)	Working Temperature	Storage Temperature
A1 2.0-0626	26	595X45.4X17.5	6	6	-20~+60°C	-20~+70°C
A1 2.0-1252	52	1180X45.4X17.5	6	6	-20~+60°C	-20~+70°C

NOTE:

1. Test environment temperature : 25±2°C.
2. Luminous flux is tested at 10000k.
3. Luminous flux is tested when lighting on with the single color.
4. Different color temperature will make luminous flux different.
5. Power tolerance within ±10%.

Profile Drawings

Unit:mm

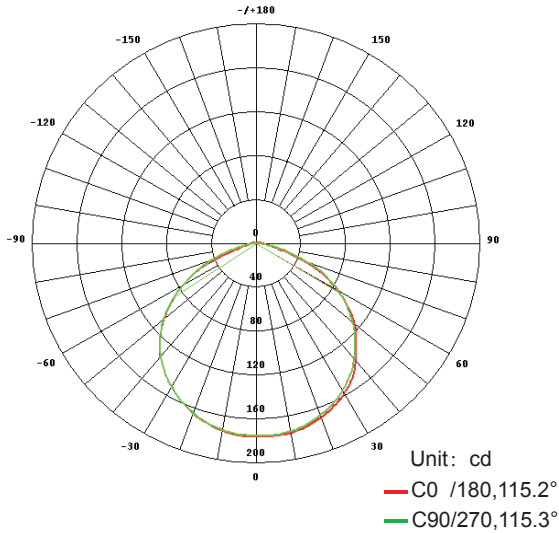


Note: Please ask the sales for detail drawing.



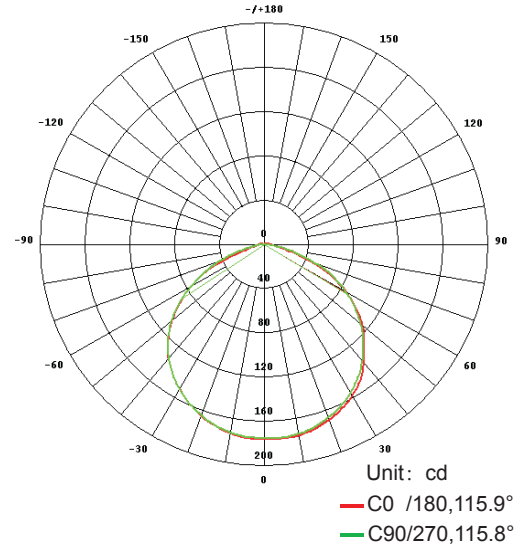
Luminous Intensity Distribution Diagram

A1 2.0-0626



AVERAGE BEAM ANGLE(50%): 115.2°

A1 2.0-1252



AVERAGE BEAM ANGLE(50%): 115.9°

Average Illumination

A1 2.0-0626

Flux Out: 394.8lm (CCT=10000K)

Height	Eavg, Emax	Beam Angle: 115.06°	Diameter
1cm	490682,1760174 lx		3.14cm
2cm	122671,440044 lx		6.28cm
3cm	54520,195575lx		9.43cm
4cm	30668,110011lx		12.14cm
5cm	19627,704047lx		12.57cm
6cm	13630,48894lx		18.86cm
7cm	10014,35922lx		22.00cm
8cm	7667,27503lx		25.15cm
9cm	6058,21731lx		28.29cm
10cm	4907,17602lx		31.43cm

A1 2.0-1252

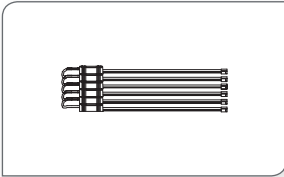
Flux Out: 835.4lm (CCT=10000K)

Height	Eavg, Emax	Beam Angle: 115.28°	Diameter
1cm	490682,1760174 lx		3.14cm
2cm	122671,440044 lx		6.28cm
3cm	54520,195575lx		9.43cm
4cm	30668,110011lx		12.14cm
5cm	19627,704047lx		12.57cm
6cm	13630,48894lx		18.86cm
7cm	10014,35922lx		22.00cm
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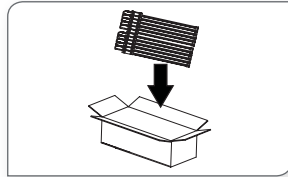
Note: The above figures are tested at 10000k, please contact sales for other data.



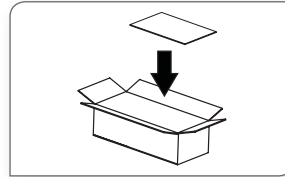
packing



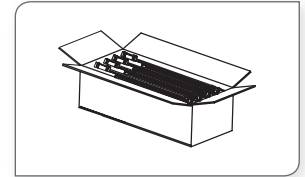
Arrange the product as a string like figure shows.



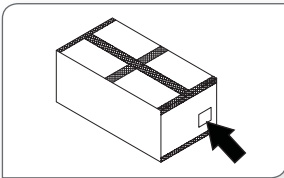
Load the first layer(two strings) into the box as shown.



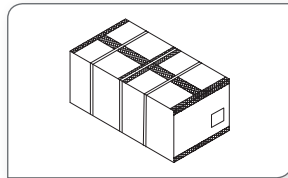
After packing a layer of product, put a layer of foam.



Put the products layer by layer into carton box.



Seal and label the box.



Use packing belt to pack. Add edge protectors if necessary.

Packaging information

Model No.	Product Size L*W*H(mm)	Carton Size(mm)	Total Qty(pcs)	Net Weight(kg)	Gross Weight(kg)
A1 2.0-0626	595X45.4X17.5	730X210X240	120	8.85(1±10%)	10.15(1±10%)
A1 2.0-1252	1180X45.4X17.5	1330X210X240	120	17.28(1±10%)	18.55(1±10%)

Note:

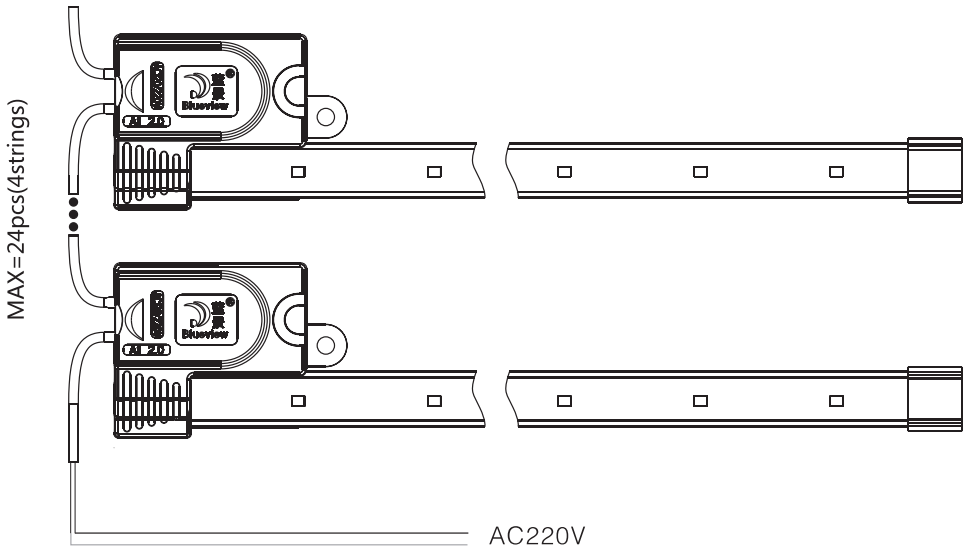
The products are separated layer by layer with white foam and packed in regular carton boxes;

The above quantity and weight are only for the illustrated packaging method. There will be differences in the quantity and weight with other packaging methods.



Installation

Connection Diagram



Installation Reference

Model No.	Bottom Color of Light box	Surface Material	Depth (cm)	Illumination (lux)	Density (pcs/m ²)	Bar Spacing (Y)cm	Visual effects
A1 2.0-1252	White	White Soft Film	15	4910-5220	8	12	OK
			16	4110-4420	7	14	OK
			17	4010-4270	7	14	OK
			18	3470-3680	6	16	OK
			19	3100-3280	5	18	OK
			20	3050-3150	5	18	OK



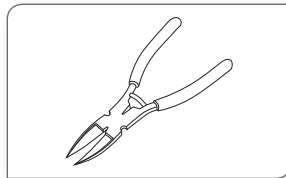
Note:
1.Spacing, see left;
2.Please ask the sales for other data.



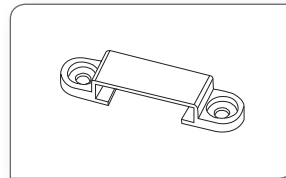
Accessories & Tools



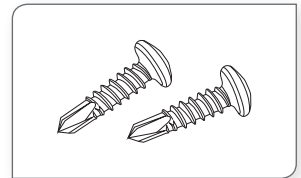
A1 2.0



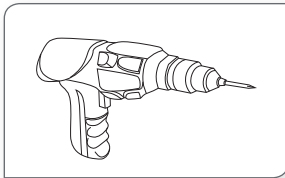
Tools:Diagonal pliers



Mounting clips

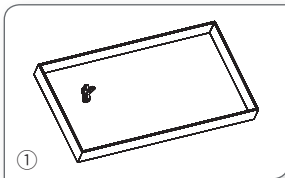


M3 Self-tapping screw

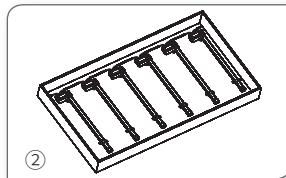


Electric drill

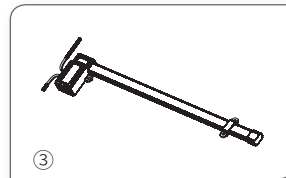
Installation steps



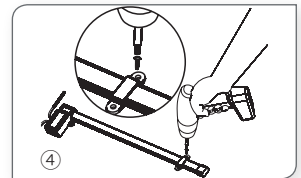
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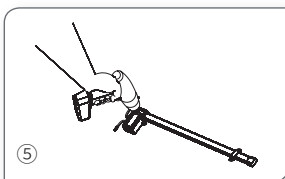
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⑤

1. Clean the mounting surface.
2. Lay the rigid bar on the inside of the light box.
3. Attach the mounting clips at the appropriate positions on both ends of the product (usually between the second and third LED).
4. Fix the product with screws and make sure the product is flat and evenly arranged in light box.
5. Check and ensure the correct line, then power on for self-test



Attentions before installation

1. Before installation, check that the product parameters are consistent with the requirements (Seeing product specifications or product labels).
2. Load voltage, current, power and power supply should be matched with the product.
3. Follow the instructions of wiring diagram (first connect the load and then the power supply) to avoid short circuit.
4. When using our AC products, it need to be matched with our lightning protection products to prevent the impact and damage of the surge current on the products.
5. Make sure the power cord firmly screwed into the terminal as it can not be pulled out by hands.
6. The terminal should have insulation, waterproof and anti-corrosive treatment.

Common Faults and Troubleshoot

Quick Guide		
Problems	Reasons	Solutions
All LEDs can not light on.	No electric supply.	Power on
	Automatic power protection from the open or short circuit in output end	Fix the short circuit problem and power on again
LEDs can not light on partly	Some products are not powered	Check the power supply system to fix it.
	Power supply line error	
	Open circuit of some of products	Correctly connection
Brightness of LED is inconsistent or insufficient	The power supply voltage does not match the product	Check the power supply voltage
	Excessive quantities in series connection	Reduce the product quantities in series connection to meet requirement.
LED flicker.	Connection point fault.	Remove bad connection point.
	Power supply failure	Make sure the working voltage tolerance of product within standard voltage.
	Wrong Installation or use of products	Please follow the instructions

Warning

- Do not disassemble or retrofit the light. Do not touch the surface of the light with a sharp object.
- Do not do live-line working during installation, especially for high voltage product.
- Do not use any organic chemical solvents.
- Use neutral glass adhesive to fix this product and it needs to be dried 4 hours in the open environment after operation.
- Treat the ends and the circuit connection points that are not connected to the main line with insulation, waterproof, and anti-corrosion in the installation.
- Use 18AWG (0.75mm² cross-sectional area) or thicker core wire to avoid adverse consequences caused by overheating, if the power cable need to lengthen.
- Make sure the input voltage meets the requirements and lines are connected correctly before lighting on.
- This product is for signage, and do not use as general lighting.
- Series connection within the max run.
- The length of the power cable between the power supply and the led strip should not exceed 2 meters. Otherwise, large circuit loss will lead to inconsistent brightness.
- Installation, maintenance and repair should be operated by a qualified technician.

Statements and Recycling

Statements:

Repair should be operated by a qualified technician, if the external circuit or main line of this product is damaged.
The parameters given in this manual are typical values and for reference only.
All illustrations and drawings in this manual are for reference.
This product is subject to change without notice.

Recycling:

LED lighting products belongs to electronic products, please do recycling treatment according to the relevant WEEE directives.