

Features

1. Adopt high quality 2835 LED
2. AC 220V direct, eliminating the need and failure of DC driver
3. High power factor $PF \geq 0.9$
4. The circuit adopts constant current technology
5. Short circuit (SCP) and over temperature (OTP) protection
6. Every LED cuttable

Application

Back lit light box with depth 5-18cm, for subway station, supermarkets, bus stops, Shopping malls etc.

Installation

Fix by self adhesive tape or screws.



Optical & Electrical Parameters

Model No.	color	Color Temperature(K)	Beam Angle	Typical Luminous Flux value(lm/pcs)	Ra	Efficacy (lm/W)	Voltage (V AC)	Power (W/pcs)
AB3-25	W	3000-9000	160°	172	80+	70	220	2.5

Other Parameters

Model No.	LED Qty/pc	Product Size L*W*H(mm)	Standard Packing Quantity(pcs)	Max Run (pcs)	Working Temperature	Storage Temperature
AB3-25	3	109.9X28X7.6	100	100	-20~+60°C	-20~+70°C

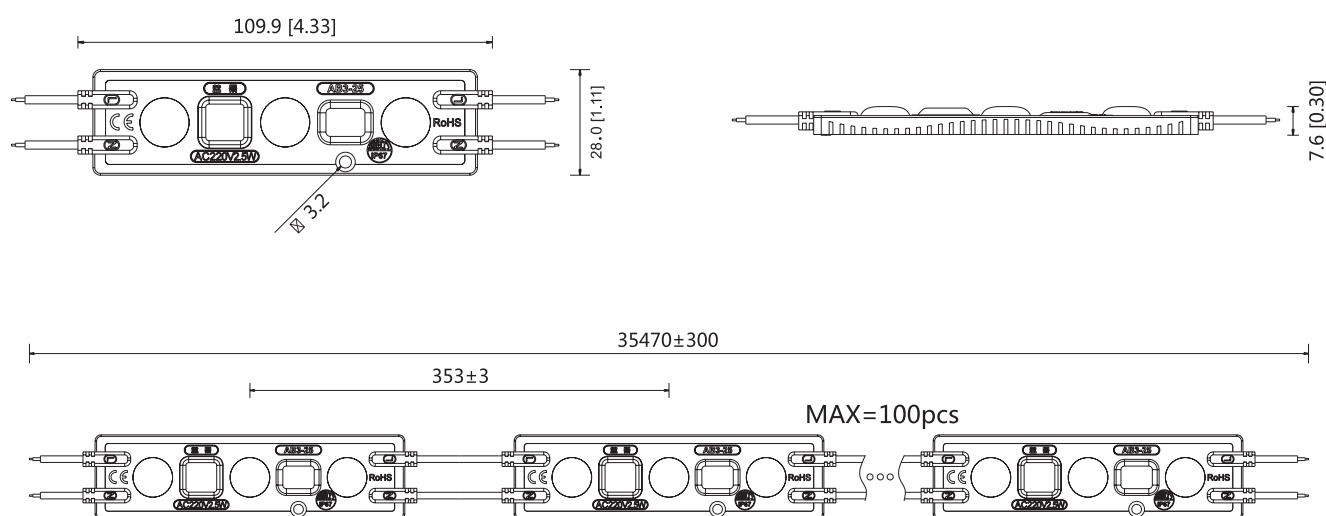
NOTE:

- 1.Test environment temperature : 20±2°C.
- 2.The above data is typical values. The actual data of each single product may differ from the typical values. The data is subject to change without notice.
- 3.Luminous flux above is single-color single-light tested result.
- 4.Different color temperature will make luminous flux different.
- 5.The Luminous flux&power tolerance within ±10%.
- 6.working voltage:200V~264V

Profile Drawings

Unit:mm

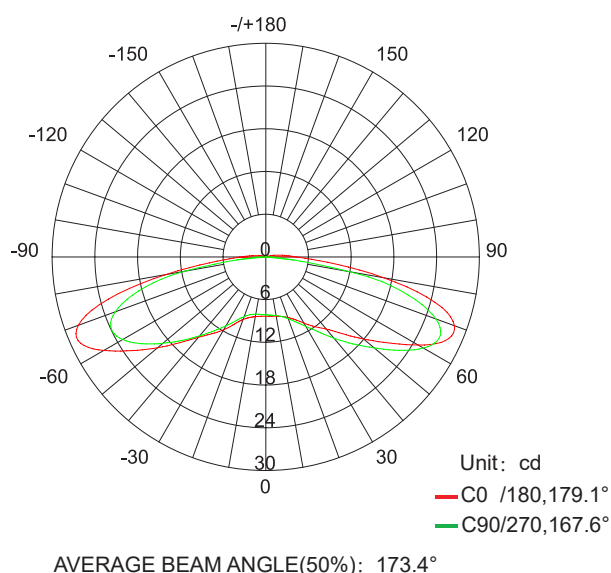
AB3-25



Note: Please ask the sales for detail drawing.



Luminous Intensity Distribution Diagram



Average Illumination

Flux Out: 105.5lm

0.02m	927.1, 20814l x	36.63cm
0.04m	231.8, 5203l x	73.26cm
0.06m	103.0, 2313l x	109.89cm
0.08m	57.94, 1301l x	146.52cm
0.1m	37.08, 832.5l x	183.15cm
0.12m	25.75, 578.2l x	219.78cm
0.14m	18.92, 424.8l x	256.40cm
0.16m	14.49, 325.2l x	293.03cm
0.18m	11.45, 257.0l x	329.66cm
0.2m	9.271, 208.1l x	366.29cm

Height Eavg, Emax Beam Angle: 167.54° Diameter



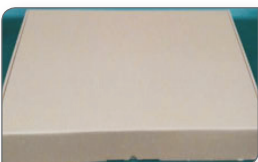
packing



Put the products into inner box.



Put the white soft film and specification into inner box.



Seal the inner box.



Put the inner box into carton box.



Seal the carton box with transparent tape.

Packaging information

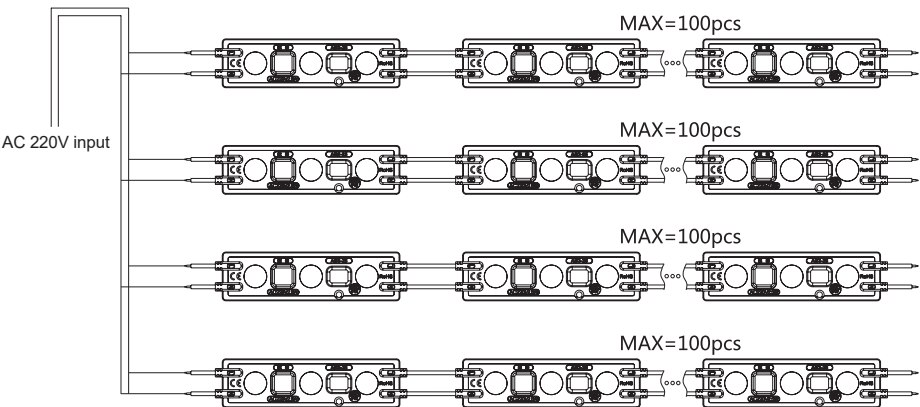
Model No.	Product Size L*W*H(mm)	Carton Size(mm)	PCS/Bag	Bag/Carton Box	Net Weight(kg)	Gross Weight(kg)
AB3-25	109.9*28*7.6	770*375*360	100	5	16.4(1±10%)	13.0(1±10%)

Note:

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.

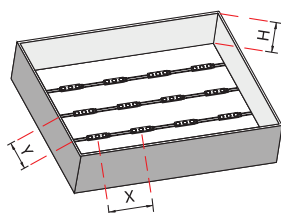
Installation

1.Connection Diagram



2. Installation Reference

Model No	Surface Material	Depth(H) cm	Illumination (lux)	Evenness	Spacing (X)cm	Density (pcs/m ²)	Power Density (W/m ²)	Visual Effects
AB3-25	White Soft Film	8	5270-6150	0.86	16*16	5*5	62.5	OK
		10	3230-3790	0.85	22*20	4*5	50	
		12	2520-2890	0.87	25*23	4*4	40	
		15	2050-2250	0.91	29*23	3*4	30	
		18	1790-1930	0.93	37*23	3*4	30	



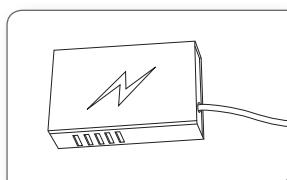
Note:

1. X indicates the horizontal center spacing between modules;
2. Y indicates the longitudinal center spacing between modules;
3. Single LED modules are arranged in a square, X=Y.
4. When the depth of light box H>25cm, use more products to satisfy Illumination demand.
5. For other data, please consult sales rep.
6. Customized wire length available
7. The above data is for common demand , you can increase the density for actual demand.

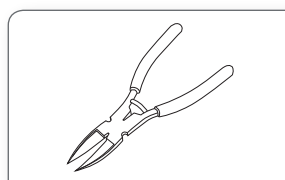
2. Accessories & Tools



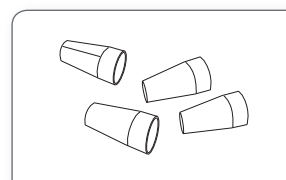
AB3



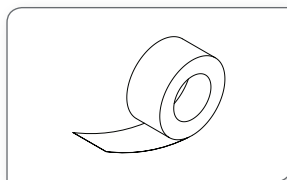
LED power supply



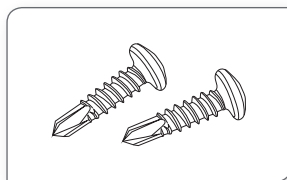
Diagonal Pliers



Connection Terminals



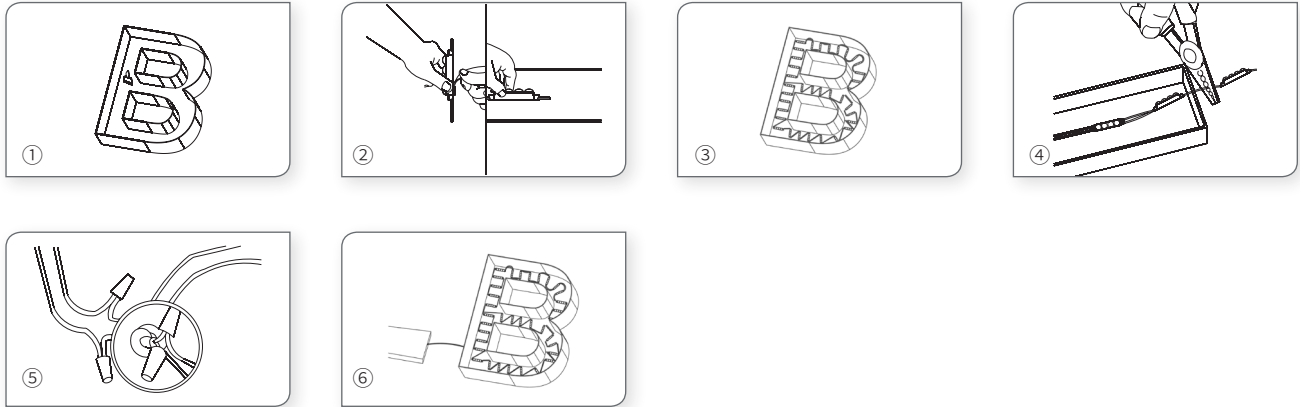
Electrical tape



Self-tapping screw



3. Installation steps



- 1.Clean the mounting surface.
- 2.Peel away the release paper on the back of led modules and stick them onto mounting surface.
- 3.Evenly arrange the led modules with appropriate space.
- 4.Cut the modules according to the requirements and treat the cut place with insulation and waterproof arrangement.
Note: Cut in the middle of the wire.
- 5.If the product needs to be connected, it is better to fix with connection ends.
Note: Treat the thread with insulation,waterproof, and anti-corrosion arrangement as it cannot pull out by hands.
- 6.Make sure the correct connection of positive and negative poles between led module and power supply.
Note: Treat the thread with insulation,waterproof, and anti-corrosion arrangement as it cannot pull out by hands.



Attentions before installation

- Before installation, check that the product parameters are consistent with the requirements (Seeing product specifications or product labels)
- Load voltage, current, power and power supply should be matched with the product.
- Follow the instructions of wiring diagram (first connect the load and then the power supply) to avoid short circuit.
- Make sure the correct connection of positive and negative poles between products and power supply. Otherwise, the light will not be on.
- Make sure the power cord firmly screwed into the terminal and it should not be pulled out by hands.
- 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 of the power supply.	Fix the short circuit problem.
	Wrong connection of power supply.	
LEDs can not light on partly.	Some switching mode power supplies are not powered.	Check the power supply system to fix it.
	Power supply line error.	
	Mistaken wire connection of some of products	Correctly connection
Brightness of LED is inconsistent or insufficient.	Power overloaded.	Replace with more powerful power
	Power supply circuit excessive consumption.	Make sure the working voltage of the product within $\pm 5\%$ of standard voltage, or keep balance by circuit power consumption.
	Excessive quantities in series connection of the product	Reduce the quantities of the product in series connection to meet requirement.
LED flicker.	Connection point fault.	Remove bad connection point.
	Switching power supply failure.	Replace a new power supply.
	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.