

HIGH VOLTAGE **EDGE-LIT** **RIGID BAR**

ABS100





ABS100

FEATURES

- High efficacy.
- Adopt Seamless Joint Design.
- The uniformity of light box surface effect is more than 0.5 .
- A variety of specifications are available, and can be customized according to customer needs.

2835

IP20

12°24°

AC220V

2Years

OPTICAL & ELECTRICAL PARAMETERS

Model No.	Voltage	Ra	Color	CCT(K)	Typical Luminous Flux Value(Lm/pcs)	Efficacy(Lm/W)	Power(W/pcs)
ABS100-0306	DC 24V	>80	W	4000-12000K	473	105	5
ABS100-0510					788	105	8
ABS100-0612					945	105	9
ABS100-0714					1103	105	11
ABS100-0816					1260	105	12
ABS100-0918					1418	105	14
ABS100-1020					1575	105	15
ABS100-1224					1890	105	18

OTHER PARAMETERS

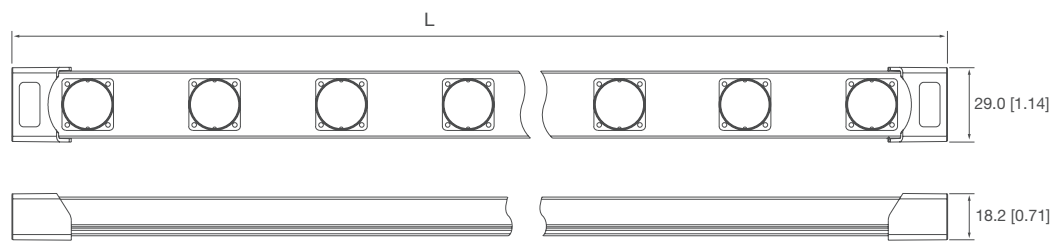
Model No.	LED Qty/pc	Product Size L*W*H (mm)	Max Run (pcs)	Working Temperature	Storage Temperature
ABS100-0306	6	300*29*18.2	20	-20~+60°C	-20~+70°C
ABS100-0510	10	500*29*18.2	15		
ABS100-0612	12	599.2*29*18.2	10		
ABS100-0714	14	700*29*18.2	8		
ABS100-0816	16	800*29*18.2	7		
ABS100-0918	18	900*29*18.2	6		
ABS100-1020	20	1000*29*18.2	5		
ABS100-1224	24	1189.6*29*18.2	4		

Note:

- The test environment temperature is 25±2°C
- The above data is measured under typical conditions , the actual parameters of the product may be different from the data, the data may change without further notice.
- The above luminous flux is lit according to the corresponding color, the test parameters were shown.
- If you choose lamp beads with different levels, the color temperature (wavelength) will be different,and the luminous flux will have a certain change.
- Luminous flux, power error ±10%
- The standard cascade quantity refers to the shipping cascade quantity.
- Voltage: AC176~264V
- PF>0.9

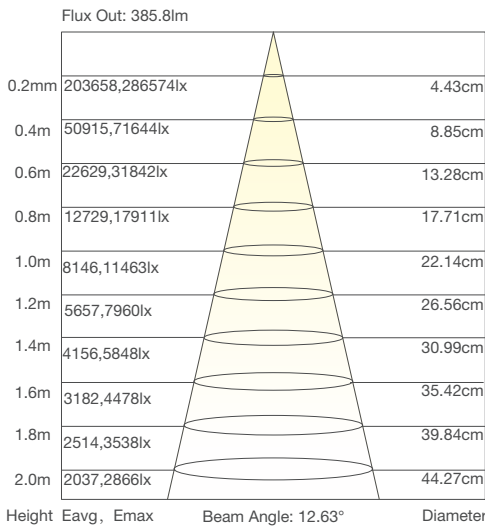
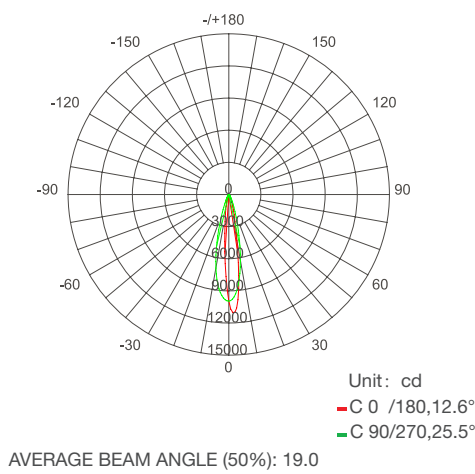
PROFILE DRAWINGS

Unit: mm [inch]



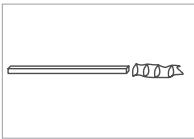
LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

AVERAGE ILLUMINATION

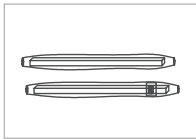


Note: the above two figures are tested with the sample ABS100-1224, for other data, please consult sales rep.

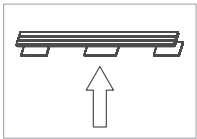
PACKAGING INFORMATION



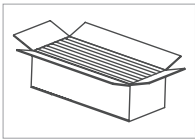
Put the product into PE bag.



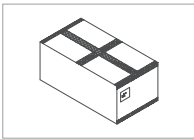
Seal the bag in two ends, and label it.



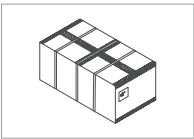
Separate the product layer by layer with foam



Put the product into carton box.



Seal and label the box.

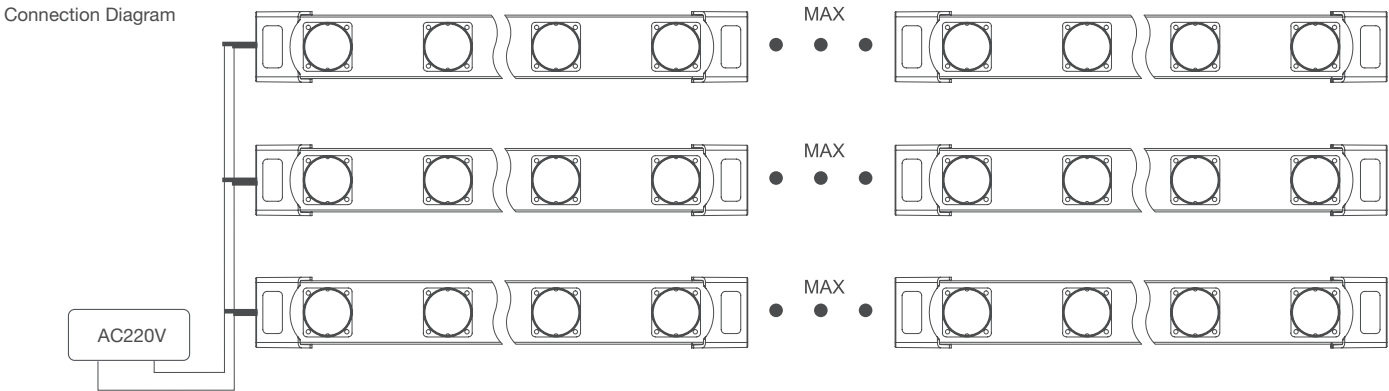


Use packing belt to pack. Add edge protectors if necessary.

Model No.	Product Size L*W*H (mm)	Carton Size (mm)	Pcs/Carton	Net Weight (kg)	Gross Weight (kg)
ABS100-0306	300*29*18.2	380*380*325	150	10.25(1±10%)	11.65(1±10%)
ABS100-0510	500*29*18.2	570*375*285	130	14.75(1±10%)	16.05(1±10%)
ABS100-0612	599.2*29*18.2	685*295*275	100	13.40(1±10%)	14.80(1±10%)
ABS100-0714	700*29*18.2	825*295*275	100	15.85(1±10%)	17.25(1±10%)
ABS100-0816	800*29*18.2	825*295*275	100	18.15(1±10%)	19.35(1±10%)
ABS100-0918	900*29*18.2	1010*295*210	80	16.35(1±10%)	17.55(1±10%)
ABS100-1020	1000*29*18.2	1100*185*185	50	11.45(1±10%)	12.75(1±10%)
ABS100-1224	1189.6*29*18.2	1300*185*185	50	14.00(1±10%)	15.50(1±10%)

Notes:
This product is packed in a PE bag and put in an ordinary long carton box.
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.

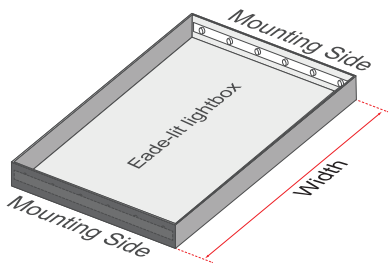
INSTALLATION



Model No.: ABS100-1224

Lighting Method	Surface Material	Width(m)	Depth H(cm)	Watt Density (W/m)	Illumination (Lux)	Uniformity	Density (pcs/2m)	Visual Effects
Double-side lighting	White pearl cloth	1.0	8	30	1610-2230	0.72	1*2	OK
		1.2	8	25	1280-2100	0.52		
		1.0	10	30	1520-1910	0.80		
		1.2	10	25	1310-1720	0.76		
		1.5	10	20	960-1550	0.62		

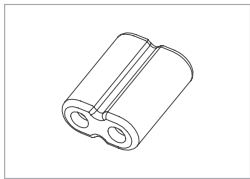
- Notes:
- The density is within a light box of 1 square meter.
 - PCS/m indicates the product quantity installed on single side, and PCS/2m indicates the quantity of double-sided installation.



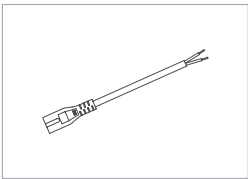
Note:

The density refers to product quantities installed on the mounting side, and "1*2" refers to 2 mounting sides and each side with 1pcs.

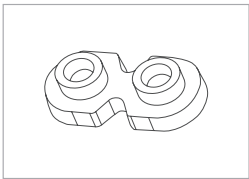
PRODUCTS AND TOOLS

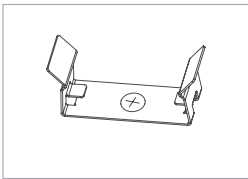


Connection Terminal

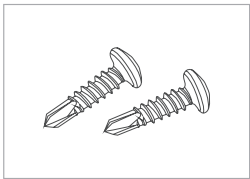


Connector Cable



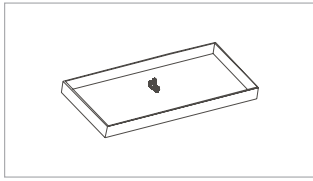


Clips

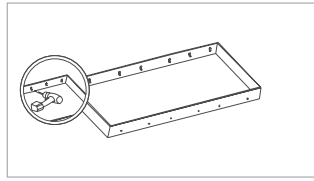


Screws

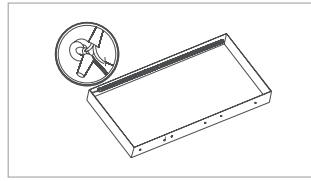
INSTALLATION STEPS



Clean the mounting surface

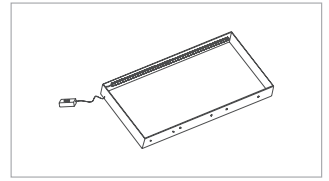


Determine the mounting distance, fix with the installation clips



For bare wire connection, please use terminals.

Treat the thread with insulation, waterproof, and anti-corrosion arrangement as it cannot pull out by hands.



Check and ensure correct installation, and fix the product with screws, then power on for self-test.

1. Screw to avoid welding plate, avoiding short circuit
2. When fastening the screw, make sure to add plastic gaskets to insulate the screw from the LED panel.

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.
- **The lightbox must be grounded after installing this product.**
- **After installation, the fabric light box must be covered with cloth within 48 hours. Please avoid leaving the light box idle for a long time.**
- **Our company's surge protective device is needed when using this kind of high voltage product.**
- **High-voltage products may be affected by strong signal interference and cause flickering. Avoid installation near signal towers, high-voltage lines, substations, power rooms, network equipment rooms, or other strong signal sources.**

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.

Version	Content	Date
A1.4	Update: Basic Parameters	2026-1-20