

Model and Specification

| Series | Galaxy Series | | | |
|--------------------|---------------|---------|---------|---------|
| Model | Z2009CA | Z2018CA | Z2118CA | Z2136CA |
| Color | White | White | White | White |
| Rated Power(W/PCS) | 3.5 | 7 | 7 | 13 |

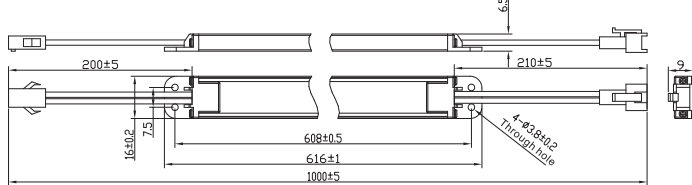
Working Voltage (V) : DC12

Working Environment Temperature (°C) : -25~60

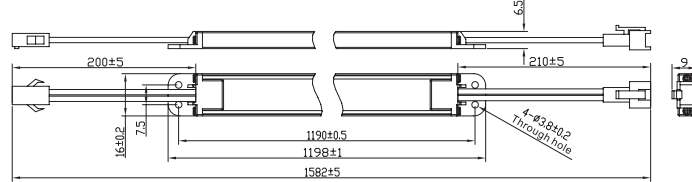
Storage Temperature (°C) : -40~70

Profile

Z2009CA & Z2018CA Product Size : 616*16*6.5 Unit: mm

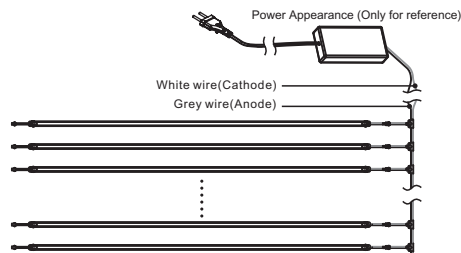


Z2118CA & Z2136CA Product Size : 1198*16*6.5



Parts and Tools

1. Installation and Connection Illustration:



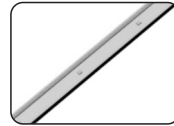
T-wire Notes and Use

| Model | Parallel Connection of Maximum Number Per 0.6m | Parallel Connection of Maximum Number Per 1.2m | Parallel Connection of Maximum Number Per 2.4m |
|---------|--|--|--|
| Z2009CA | 12PCS | 12PCS | 12PCS |
| Z2018CA | 12PCS | 12PCS | 6PCS |
| Z2118CA | / | 12PCS | 12PCS |
| Z2136CA | / | 12PCS | 6PCS |

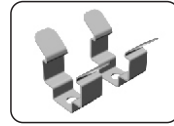
⚠ Don't use T-wire parallel connection if T-wire is not enough, and It must be connected specially to power supply; Cut off T-wire and avoid short circuit if maximum cascade number of T-wire exceed the original number.

2. Product parts and Self-provided tools:

(1) Product Parts



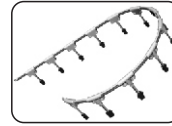
Galaxy Series Products



Installation Holder



Self-tapping Screw (ST2.9)



T-wire

(2) Self-provided tools



Electrical Drill & Drilling Bit

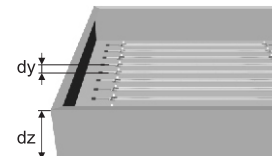
Installation & Application Examples

Reference Scheme

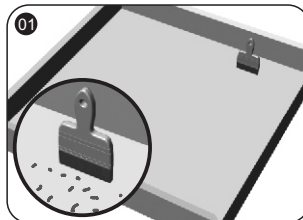
| Light Box Thickness (mm) | Space between Strips(mm) | Installation Quantity (pcs) | Illumination Scope(lux) | |
|--------------------------|--------------------------|-----------------------------|-------------------------|----------------------|
| | | | Z2009CA(9LEDs/0.6m) | Z2018CA(18LEDs/0.6m) |
| dz=100 | dy=60 | 16 | 4000-4300 | 6900-7000 |
| dz=120 | dy=80 | 12 | 2800-3200 | 4800-5400 |
| dz=160 | dy=120 | 8 | 1950-2100 | 3100-3700 |
| dz=180 | dy=140 | 7 | 1500-1600 | 2700-3000 |

Remark:

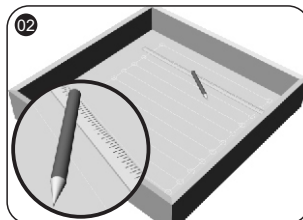
1. The above layout data are measured with 0.6m LED bars which used Rishang's LED. The data for 1.2m LED bars will be same under the same condition of use.
2. The example is tested with 3mm thickness white acrylic panel which the transmittance is up to 54%.
3. Light box size: 600mm*1000mm.
4. The above layout data are measured with Rishang's LED. Under the same condition of use, the brightness of Samsung's LED will be more 30% than Rishang's LED.
5. The above data is for reference only.



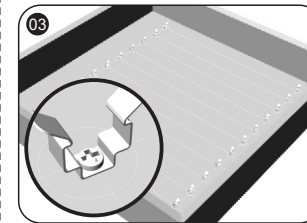
Install Procedures



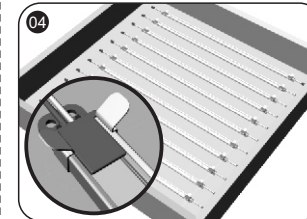
- Clean the installation surface before installing.



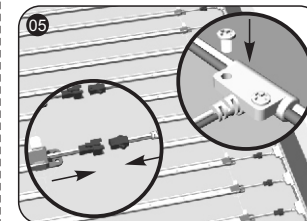
- Select the installation place and quantity.



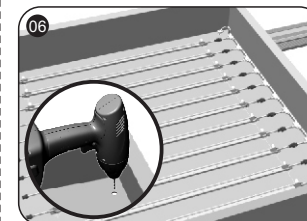
- According to the drawn lines, installation holder will be fixed on the framework or light box board.



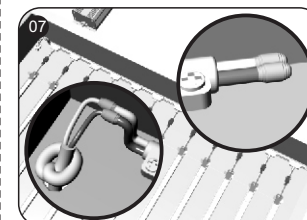
- After installation holder fixed, you shall fasten the bars and arrange the layout parallel.



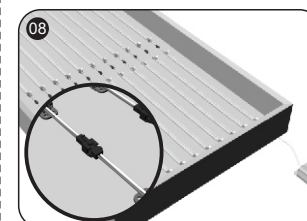
- Connect T-wire with bar terminal line, and fix T-wire well.



- Fix the appropriate power supply, and drill a hole near the end of T-wire. The wire through the hole must be fixed and protected them well.



- Connect LED bar to the power supply's output end, beware of the polarities, and prepare for avoiding short circuit at both wire ends.



- Connect each two bar's wire together (anode to anode and cathode to cathode), if more products are needed.

⚠ Note: The maximum cascade length of the product is 2.4m. No exceeding!

NOTES

1.Installation notes:

- 1)Clean the installation surface before installing.
- 2)Make sure the polarity of the product and the power supply is corrected linked, otherwise, the product can not be lightened.
- 3)Check the connection between the terminals of LED bars with the cord of the power supply, it is suitable to not be pull out by hand.

2.Notes for other installation materials used:

- 1)Do not use any acid or alkaline adhesive to fix the product.
- 2)When installing the product, avoid the adhesive sticking to the LED surface.
- 3)The standard product length is 2.4m. Please choose a switch power supply that have short-circuit, over voltage and over current protection functions. The tolerable output voltage range of the power supply should be around $\pm 5\%$. If more products are needed, you must make sure the power supply's rated load is 15% or higher than it's real load.

Malfunction&Solutions Table

| Malfunction & Solutions Tables | | |
|--|---|---|
| Malfunctions | Possible Causes | Solutions |
| Non LED work | 1, No power from the power supply. | Supply power. |
| | 2, The power supply is short circuit; The switching power supply automatically protected against short-circuiting. | Remove any short-circuiting malfunctions, re-electrify. |
| | 3, The polarity between the bars and the input power supply is reversed. | |
| Part of the LED bars don't work | 1, No output for the part of power supply . | Check the power supply and remove malfunctions . |
| | 2, Wrong polarity connected for the part of the bars. | |
| | 3, The polarity among some products and the power supply's are reversed. | Connected the wires rightly. |
| | 4, Part of T-wires connected unusually. | Make T-wire connect rightly. |
| Brightness of the LED is dim or not even | 1, The power supply is over loaded. | Add more power. |
| | 2, The loss of the power supply's wire is too big. | Make sure the bars' working voltage is within 95%-105% of the rated voltage. |
| | 3, The quantity of LED bars cascaded too more. | Adjust the number of LED bars for each power supply. Adjust every electric circuit to the largest bars amount required. |
| LED are blinking | 1, The connection are loosen. | Find the loosen connection and remove any malfunctions. |
| | 2, Failures in the power supply. | Replace the power supply |

Warning

- This product is non-waterproof, indoor use only.
- Do not disassemble or modify the light.
- Do not install while the electricity cables are live.
- Do not use any acid or alkaline adhesive to fix the product; when using neutral silica glue to fix the product, do not store the product until the neutral glass is cured in the open air.
- The length of power cord cannot exceed 2m between power supply and bar. But, the wire will be damaged increasingly and bright difference.
- Check if the wire installation is correct and if the power voltage can meet the requirements before electrifying.
- Don't use T-wire parallel connection if T-wire is not enough, and It must be connected specially to power supply; Cut off T-wire and avoid short circuit if maximum cascade number of T-wire exceed the original number.

Warranty

Warranty: 3 years or 13,000 hours, whichever comes first.

Galaxy Series LED Single-Side Bar User Guide

Z2009CA, Z2018CA
Z2118CA, Z2136CA



Read this manual carefully before using this product and keep it!