**Description:** RX-ALF5050 waterproof LED aluminum panel, Patent No.: ZL200820131053, ZL200820132702. With top SMD5050, unique waterproof design, the world's first, holds several patents, has a slim, low temperature rise, waterproof, safe, reliable, long life; strength over 50,000 hours aging test; Around the world, more than 5 years practical application, to good effect. Used in place of large-scale projects, shopping malls, railway stations, airport, high-brightness lighting, a variety of sizes optional, you can also customize the size and Outer shape, do your own energy-saving lighting project.

**Waterproof**

- **IP67**
- **>20000 hours test**
- **>2years (800 days)**
- **Life-Span >50000 hours**

**A variety sizes**

- **Max 600x600mm**
- **Max custom size 0.5m²**

**Option LED Spacing**

- **16.66, 25, 33.33mm**

**Ultra-thin**

- **3mm**

**Luminous efficiency**

- **100Lm/W DC12V**
- **LED chip >130Lm/W**

**Application specs**

- **Brightness** 20Lm / LED
- **Default Colors** CW6000~6500K
- **Other colors** WW2700~3200K NW4200~4700K
- **CRI** > 75
- **Application Environment** Dry & Damp Locations
- **Operating Temperature** -22°F~104°F (-30~40°C)

**Electrical specs**

- **Power** 0.2W / LED
- **Input** DC 12V
- **Warranty** 3 years
- **Certification** CE RoHS FCC

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*Schematic diagram*

- **LED side lead wires**
- **back side lead wires**

*One LED a group*

Our can customize the size you need, the maximum area of 0.5m²; You need to shape, you need to power up to 200W / 600x600mm.
### Data sheet

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Dimension LED QTY</th>
<th>Lumen</th>
<th>Power DC12V</th>
<th>Life-Span</th>
<th>LED spacing</th>
<th>Comment</th>
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<tbody>
<tr>
<td>RX-ALF5050-33-3030</td>
<td>300x300mm 81LED</td>
<td>1500Lm</td>
<td>15W</td>
<td>&gt;50000hours</td>
<td>33.33mm</td>
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<td>3000Lm</td>
<td>30W</td>
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<td>600x600mm 324LED</td>
<td>5800Lm</td>
<td>58W</td>
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<td>16100Lm / m²</td>
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<td>20W</td>
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<td>&gt;40000hours</td>
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<td>RX-ALF5050-16-6060</td>
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<td>20000Lm</td>
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</table>

*Minimum distance required from panel to face. Calculated with 2447 milky white acrylic with no graphics, Depth on faces with graphics can have thinner cabinet depths, Consult with XineLam for samples and depth demonstrations. Special sizes, Consult with XineLam Reps and Distributors

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### Optional plug wire

**Waterproof plug cable**

![Waterproof plug cable](image)

**5.5x2.1mm DC plug cable**

![5.5x2.1mm DC plug cable](image)

**Large current terminal wires Max 20A**

![Large current terminal wires Max 20A](image)
Replace fluorescent tubes

Advertise light boxes backlight installation diagram

Covered with diffuser plate

Flat wall

Advertising light box frame

Screw

**Note:** Our only produce LED aluminum panel, the picture above for reference purposes only!

**Wiring diagram**

Parallel connection (recommended) Series connection Max: 5A

Series connection: 12V 5A 60W
Waterproof LED aluminum panel-High brightness and Super Brightness light source
MODEL: RX-ALF5050 Series  Http: www.xinelam.com

Recommended Dimming system
Dimming power + PWM signal (Option1-10V)
HLG-120H-**B + DM-IR8A

A large area of simple synchronous dimming system - No PWM flicker
Constant voltage constant current power supply - 100% load power

Other Dimming system
CV power + PWM dimmers driver

Calculations are based on 80% max load on Constant voltage power supply
Waterproof LED aluminum panel-High brightness and Super Brightness light source
MODEL: RX-ALF5050 Series
Http: www.xinelam.com

A large area of synchronous dimming system

DM-IR8A

PWM signal

CDA-02 PWM amplifier
Max 5Ax3CH

CDA-02 PWM amplifier
Max 5Ax3CH

LED CV input

LED CV input

LED CV input

LED CV input

LED CV input

LED CV input

DM-IR8A PWM dimmers, including infra-red remote control.

CAUTION: This product is installed by a professional engineering staff.

Safety Information
1. The LED panel itself and all its components may not be mechanically stressed.
2. Assembly must not damage or destroy conducting paths on the circuit board.
3. Installation of LED lamp (with power supplies) needs to be made with regard to all applicable electrical and safety standards. Only qualified personnel should be allowed to perform installations.
4. Correct electrical polarity needs to be observed. Wrong polarity may destroy the LED panel.
5. Parallel connection is highly recommended as safe electrical operation mode.
6. Serial connection is not recommended. Unbalanced voltage drop can cause hazardous overload and damage the LED panel.
7. Please ensure that the power supply of adapters power to operate the total load.
8. When mounting on metallic or otherwise conductive surfaces, there needs to be an electrical isolation points between strip and the mounting surface.
9. Pay attention to standard ESD precautions when installing the LED panel.
10. Damaged by corrosion will not be honored as a materials defect claim. It is the user’s responsibility to provide suitable protection against corrosive agents such as moisture and condensation and other harmful elements.
11. Waterproof LED panel, please note waterproof wiring department
12. LED panel can’t be used as support, you need fixed in the frame, fixed to the wall, otherwise, may cause deformation.