**Description:** RX-ALF5050 waterproof LED aluminum panel, Large LED module, 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

### Large-size
Customization
Max 800x800mm

### Safe Low Voltage
DC12V

### Ultra-thin
3mm

### RGB 3 Independent LED
Adjust any color you need

<table>
<thead>
<tr>
<th>Application specs</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Brightness</td>
<td>5Lm/RGB</td>
</tr>
<tr>
<td>Default Colors</td>
<td>Red, Green, Blue</td>
</tr>
<tr>
<td>Other colors</td>
<td>RGB+NW; RGB+WW</td>
</tr>
<tr>
<td>CRI</td>
<td>&gt; 75 / White</td>
</tr>
<tr>
<td>Application Environment</td>
<td>Dry &amp; Damp Locations</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-30~50°C</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electrical specs</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>0.2W / LED</td>
</tr>
<tr>
<td>Input</td>
<td>DC 12V Common anode</td>
</tr>
<tr>
<td>Warranty</td>
<td>3 years</td>
</tr>
<tr>
<td>Certification</td>
<td>CE RoHS FCC</td>
</tr>
</tbody>
</table>

*Schematic diagram*

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* >50000 Hours Test (The same series of white LED aluminum panel)
# Waterproof LED Aluminum Panel – RGB LED Module – Multi-color LED Backlight

**MODEL:** RX-ALF5050-33-RGB Series  
**Http:** [www.xinelam.com](http://www.xinelam.com)

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## 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>
</tr>
</thead>
</table>
| RX-ALF5050-33-RGBW-3030 | 300x300mm 81pcs RGB LED           | 405Lm/RGB | 15W/RGB     | >50000hours | 33.33mm      | Max Temperature rise + 10°C  
Operating Temperature: (-30-50°C)  
High brightness  
60% energy saving compared with fluorescent  
Lighting-source: light boxes backlight.  
3 LED a group                                                                 |
| RX-ALF5050-33-RGBW-3060 | 300x600mm 162pcs RGB LED           | 810Lm/RGB | 30W/RGB     | >50000hours | Min. Cabinet Depth* 48mm                                              |
| RX-ALF5050-33-RGBW-5050 | 500x500mm 225pcs RGB LED           | 1120Lm/RGB | 40W/RGB     | >40000hours | 160W / m²  
16100Lm / m²                                                                 |
| RX-ALF5050-33-RGBW-6060 | 600x600mm 324pcs RGB LED 324pcs WW LED | 1620Lm/RGB | 60W/RGB     | >50000hours |                                                                        |

*Note: All measurements are tested at room temperature 25 °C, test voltage DC12V;*  
*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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**Advertising Light Boxes Backlight Installation Diagram**

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

12V Power Supply

RGB LED Controller

Blue -
Green -
Red -
+DC12V Common anode (White cable)

Power Supply power must be at least 20% higher than LED load power

**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.