

Description: After years of development and production; we already have the world's most specifications of waterproof and not waterproof LED panel. More for you to customize various sizes (the largest size 1000x1000mm), all kinds of shape (square, round, octagonal shaped), a variety of power brightness (maximum 300W), a variety of LED array mode (square, triangle, honeycomb-shaped), a variety of applications (advertising light boxes, high-brightness of the large-scale projects, home lighting) LED panel. The LED panels are used the top light efficiency of LED chip, the real energy. The unique design and manufacturing so that it is efficient and reliable products and safe, more aging test of 24 hours over three years, years of practical application of engineering around the world to good effect! Independent intellectual property rights and patents. More specifications, this article lists the advantages and disadvantages of the various models, and hope to help you choose the right LED panel.

The LED panel Category:

1. Classified in accordance with the form factor

While we can to customize the size and shape according to your requirements; but this requires additional costs, the unit price is relatively high. Recommended to choose a standard size, the square of the standard size is generally 300x300mm, 300x600mm, 600x600mm, round standard size diameter of 300mm, 400mm; details, see the specifications of each model are different depending on the model.

2. In accordance with the brightness of the LED panel

LED panel brightness and size of power, the power the greater the brightness the higher; ease of understanding, 600x600mm size LED panel, for example: our existing product brightness 640Lm 1080Lm, 1800Lm, 2100Lm, 2520Lm 3360Lm, 5200Lm, 5600Lm, 9000Lm, 10000Lm, the highest we can customize 20000Lm LED panel.

3. According to the LED array and LED spacing

LED arrangement is divided into squares arranged in triangular arrangement of the honeycomb-shaped arrangement; square array is the most commonly used, the triangular arrangement of minimum distance of dodging; square arrangement of uniform optical depth and LED spacing ratio is 1:1.43, the triangular arrangement of the smallest uniform optical depth and LED spacing ratio is 1:1.25. If the shade or advertising canvas and LED panel spacing adequate, suggested the use of a square array; the triangular arrangement of the unit price is higher. The honeycomb-shaped arrangement of the very few customers use is not recommended.

LED spacing: 16mm, 25mm, 30mm, 33mm, 45mm, 50mm, 66mm. Light away from the smaller, the more the number of LEDs used, the higher the brightness, the higher the power consumption.

4. In accordance with the input voltage.

Classified in accordance with the input voltage, input voltage of the LED panel 9.6V, 12V, 19V, 24V, 12 ~ 24V (built-in constant current LED panel), in the practical application of 12V more constant voltage drive, easy to extend, for many year large-scale practical application of engineering to good effect, reliability, security has been a good test. Small-scale using the recommended built-in constant current LED panel, using the constant voltage drive, easy to expand, reliability requires the test of time (in June 2011, small quantities of practical application).

9.6V and 19V LED panel, high luminous efficiency 110Lm / W, recommend one-on-one using the constant current power supply

Built-in 12 ~ 24V, constant current LED panel, high luminous efficiency 105Lm / W, wide voltage constant voltage drive, easy to expand, the future direction of our development

12V, 24VLED panels, luminous efficiency lower 90Lm / W, reliable performance, easy to install, the constant voltage drive, scalability (one power for driver more LED panel, a power driver, according to the actual need to increase or decrease. need to replace the drive power, you can use low-cost dimming system)

5. In accordance with the drive mode.

Classified in accordance with drive way, you can use a constant current power driver, the constant voltage power supply driver .The advantages of constant-current drive efficiency is high, the disadvantage is that only one power drive to one LED panel, the constant voltage drive advantage is that a power supply can drive one or more LED panels of different sizes, different power consumption can be any combination.

How to choose the LED panel

- Brightness levels - this is based on actual customer demand, replace the fluorescent tubes, 50% of the original fluorescent tubes power to select the LED panel
- Color and color rendering index, optional colors: Warm White 3000 ~ 3500K Neutral White 4200 ~ 4700K, White 6000 ~ 7000K; Ra 70/80 optional
- The range of applications to select, use light boxes backlight recommend the use of RX-ALF3528 series,Lighting source of light is the RX-ALF5050 series
- Efficiency requirements, you can accept the high price of the constant current power supply, each LED panel corresponds to a power, it is recommended to select 9.6V products, matching the constant current power supply drives
- Higher efficiency requirements, the use of a common constant voltage power supply drive, it is recommended to select the built-in constant current LED panel, input voltage 12 ~ 24V, and the absence of a long period of practical application, a large area be used with caution (maximum area of less than 10m2)
- Require high reliability, large area, please use the 12V LED panel, Large-scale projects, many years of practical application; high reliability.

Note:

12V the LED panel derating of 15%, 0.1V voltage drop corresponding to 3% of the current changes, 9.6V LED panels derating 8%, 0.1V voltage drop corresponding to 7% of the current changes, it is recommended that the constant current driver, if you must need more high-precision drive constant voltage drive, recommend the use of specifically tailored for 9.6V LED panel EF-DC2A, and EF-DC-8A.

In conclusion :

If a constant current source drives an LED panel, recommended 9.6V panel + constant current power supply

If a power drive multiple LED panels, the use of an area of less than 10m2, built-in constant current panel + constant voltage power supply is recommended

If you need high reliability, extended ease of installation, a large area of use, please use the 12V panel +12 V constant voltage power supply

Commonly used types of data: see attachment page 1

Dimming of the LED panel: see attachment page 2

600x600mm LED panel models:

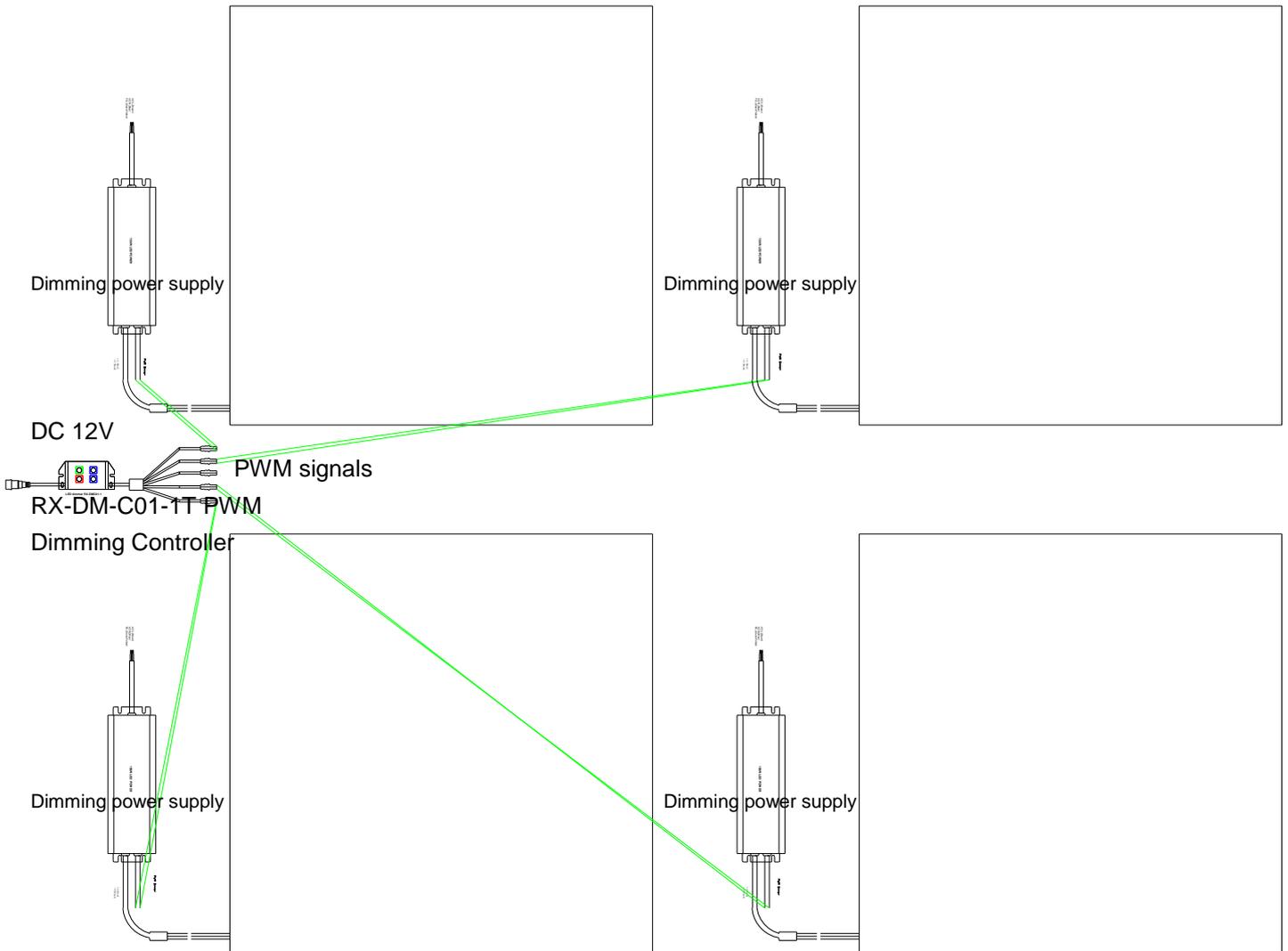
LED panel TYPE	Commonly used MODEL	Luminous flux / power	LED drive mode power recommended	Application	Advantages and disadvantages
12V LED panel	RX-ALF3528-T66 600x600mm 90LED	630Lm/7W	Constant voltage drive Ordinary genuine 12V power Requirements of margin of 20%	Low brightness advertising light boxes	Advantages: safe, reliable, and after the test of time, easy to install the extension directly using the 12V power supply or 12V batteries such as car supply, the common voltage, drive power purchase easy, you can use a large power-driven variety of LED panel, you can use lowcost PWM dimming Disadvantages: The luminous efficiency is relatively low
	RX-ALF3528-X66 600x600mm 162LED	1080Lm/12W		Advertising light boxes backlight	
	RX-ALF3528-33 600x600mm 324LED	1980Lm/22W		Highlighted advertisements Or Light source	
	RX-ALF3528-25 600x600mm 576LED	3500Lm/36W		Lighting source	
	RX-ALF5050-33 600x600mm 324LED	5200Lm/58W		Highlight illumination light	
	RX-ALF5050-25 600x600mm 576LED	9000Lm/100W			
9.6V LED panel	RX-ALF3528-T66 600x600mm 90LED	620Lm/5.7W	CV+DCDC EF-DC-2A	Low brightness advertising light boxes	High luminous efficiency, constant current power supply-driven, efficient and reliable Disadvantages: The drive power is not easy to obtain the required constant current drive (a variety of specifications of power to match the complex). For expansion is convenient to use a dedicated high-precision constant voltage drive can use a DC DC converter within the power range, 20W less than the selected EF-DC-2A, 100W or less can choose to use the EF-DC-8A
	RX-ALF3528-X66 600x600mm 162LED	1100Lm/10W	CV+DCDC EF-DC-2A	Advertising light boxes backlight	
	RX-ALF3528-33 600x600mm 324LED	2200Lm/20W	CC ELN-30	Highlighted advertisements Or Light source	
	RX-ALF3528-25 600x600mm 576LED	3800Lm/35W	CC ELN-30	Lighting source	
	RX-ALF5050-33 600x600mm 324LED	6200Lm/58W	CC ELN-60	Highlight illumination light Large-scale design	
	RX-ALF5050-25 600x600mm 576LED	9900Lm/90W	CC CLG-150		
12~24V LED panel Built-in constant current module	RX-ALF3528-CC-T66 600x600mm 90LED	640Lm/6W	CV driver Arbitrary constant voltage power supply 12 to 24V Requirements of margin of 20%	Advertising light boxes backlight Lighting source	Constant voltage power supply-driven Can PWM dimming A large area synchronous dimming Expansion is good, cheap power High luminous efficiency Lack of high-brightness model
	RX-ALF3528-CC-T50 608x608mm 168LED	120Lm/11.4W			
	RX-ALF3528-CC-T33 600x600mm 360LED	2520Lm/24W			
	RX-ALF3528-CC-T30 608x608mm 480LED	3360Lm/32W			
	RX-ALF5050-CC-T33 600x600mm 360LED	7140Lm/68W			

Note: the above data, the test room temperature 25; LED panel color is white 6000-6500K ; Ra 70

On the dimming in the following ways:

1. Dimming LED drive power + PWM dimming signal
2. Constant voltage power supply + PWM dimming signal + PWM Amplifiers
3. Built-in Constant current LED panel + constant voltage power supply + PWM dimming signal

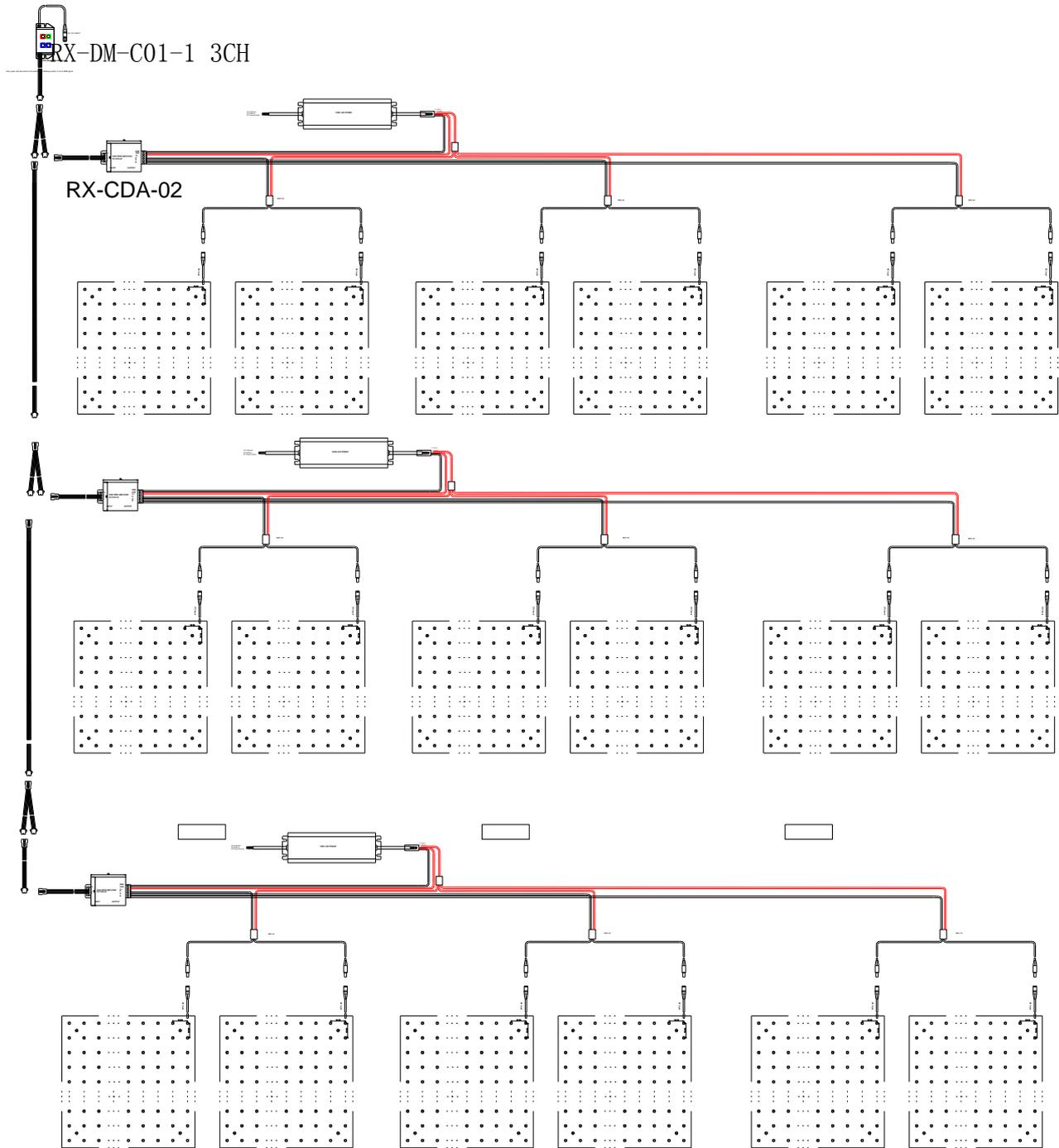
1. Dimming LED drive power + PWM dimming signal



Dimming of the drive power + PWM dimming signal; 9.6V and 12V LED panel applies.

Power price is more expensive

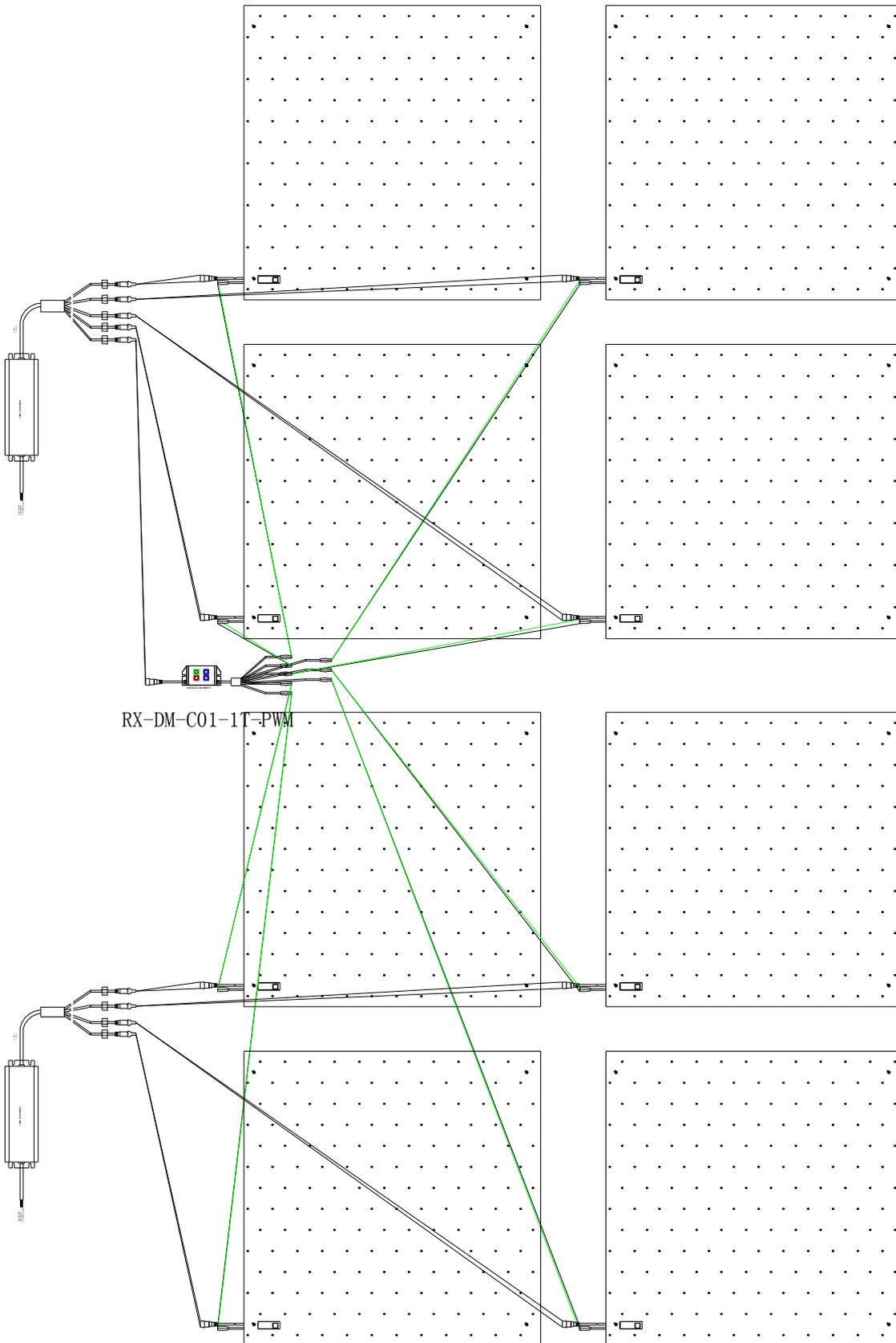
2. Constant voltage power supply + PWM dimming signal + PWM Amplifiers



Constant voltage power supply + large area of low-voltage PWM dimming signal + the PWM amplifier synchronous dimming

Reliability, scalability, power supply, PWM amplifier cheap

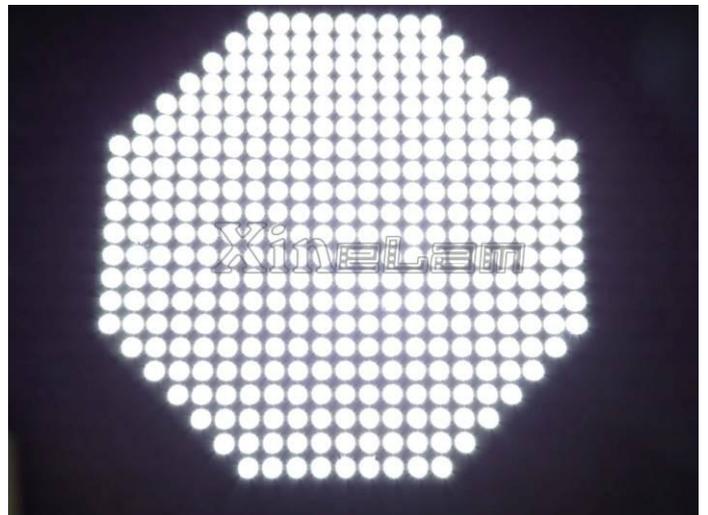
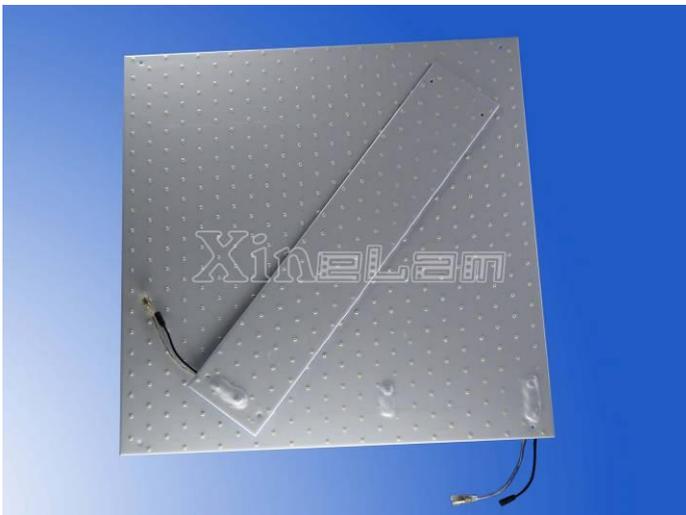
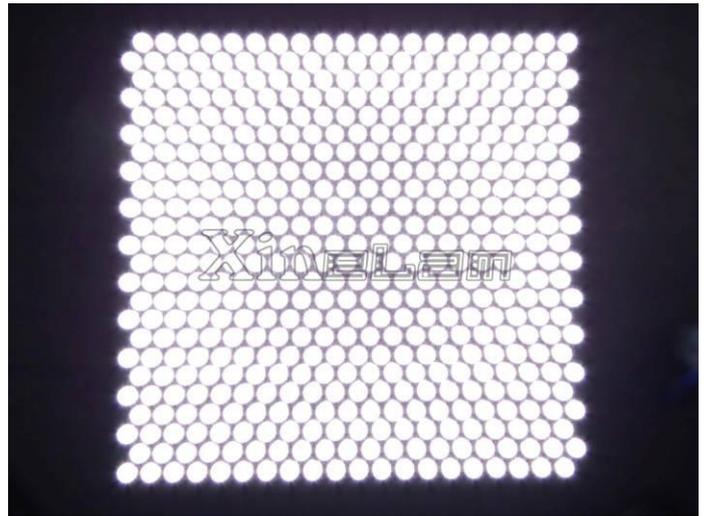
3. Built-in constant current LED panel + constant voltage power supply + PWM dimming signal - Built-in constant current LED panel applies.



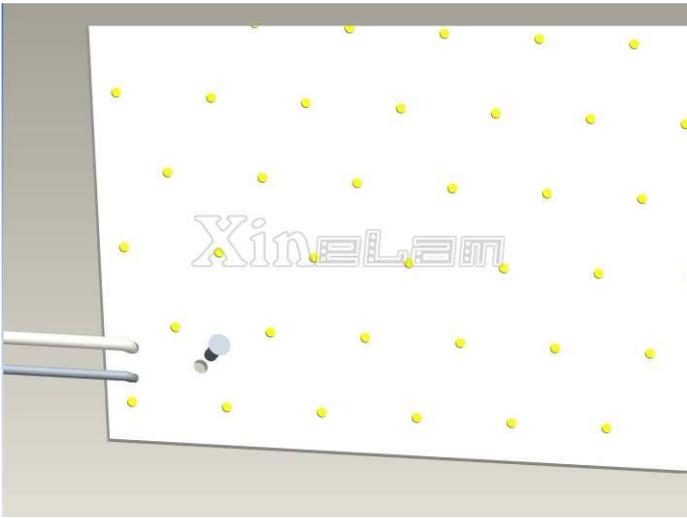
Constant current LED panel + constant voltage power supply + large area of the PWM dimming signal synchronization dimming

Scalability, you can use a wide choice of power supply, power prices are low.

Related Products Photo:



Professional customization of various sizes, a variety of brightness and shape of the LED panel; top SMD LED



Positive side lead wire



back lead wires