5050 LED WATERPROOF MODULE

PS5-B

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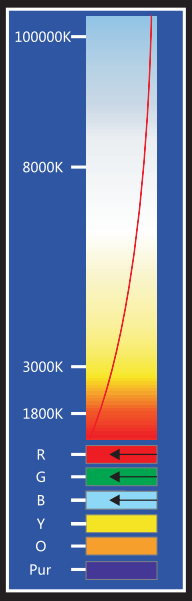
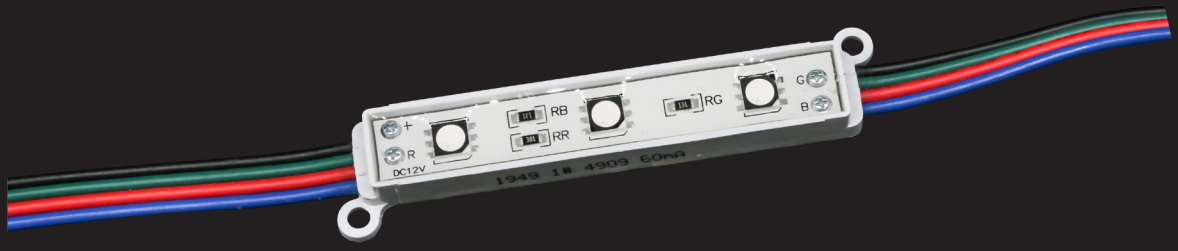
5050 | 120° | 12V | IP66 | 3Years





Features

1.Adopt high quality 5050 RGB SMD.
2.Waterproof,IP66,for perfect outdoor use.
3.Single module cuttable for easier installation.

Application

Suitable for big luminous letters,outdoor architectural decoration etc.

Installation

Fix by adhesive tape or screws

+86-28-8148 0011
86-28-8148 1258
sales@blueviewled.com
Add:No.1000,Section 2,2nd Konggang Road,Southwest Aviation Industrial Development Zone,chengdu,Sichuan,china.
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Optical & Electrical Parameters

Model No.	Light Color	Color Temperature/ Wavelength(K/nm)	Beam Angle	Typical Luminous Flux value(lm/pcs)	Ra	Efficacy (lm/W)	Voltage (V DC)	Power (W/pcs)
PS5-B	R	620-625	120°	7	--	27	12V	0.24
	G	525-530		13	--	52		0.24
	B	465-470		3	--	13		0.24
	R+G+B	100000+		22	--	30		0.72

Other Parameters

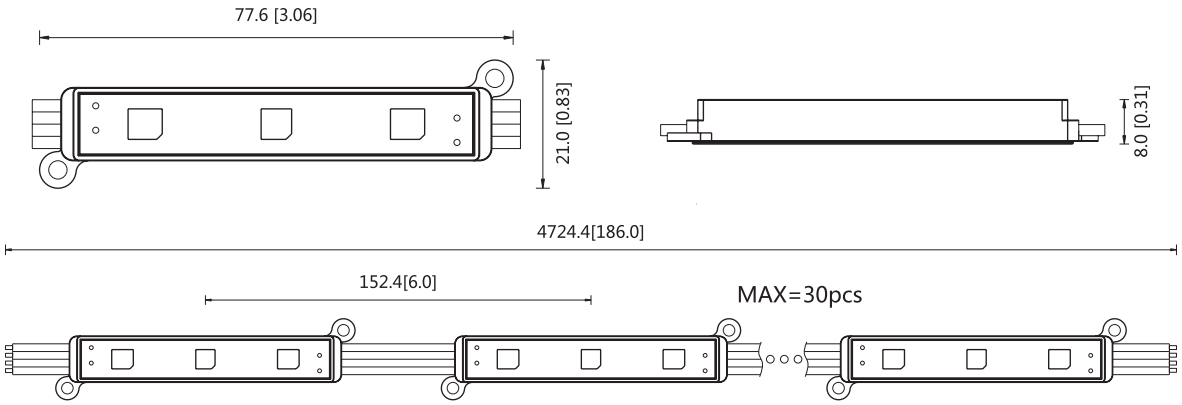
Model No.	LED Qty/pc	Product Size L*W*H(mm)	Standard Packing Quantity(pcs)	Max Run (Single Feed)(pcs)	Working Temperature	Storage Temperature
PS5-B	3	77.6*21*8	30	30	-20~+60℃	-20~+70℃

NOTE:

1. Test environment temperature : 20±2°C.
2. Figures above are typical figures. Actual figures could be different with typical figures, and the data is subject to change without notice.
3. Luminous flux is tested when lighting on with the single color.
4. Different color temperature will make luminous flux different.
5. The luminous flux and power tolerance within ±10%.

Profile Drawings

Unit:mm[inch]



Note: For detail drawing,please consult sale rep.

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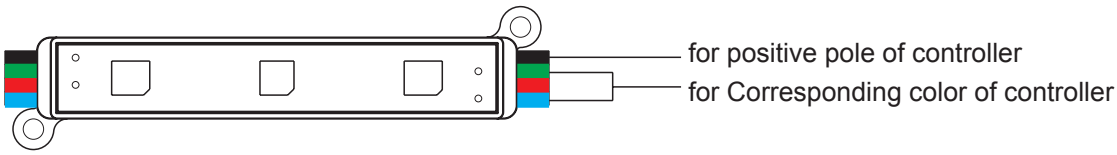
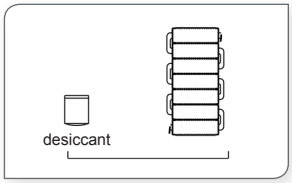
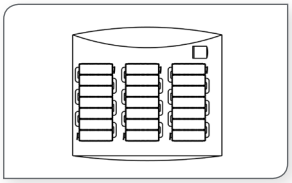
Wire sequence



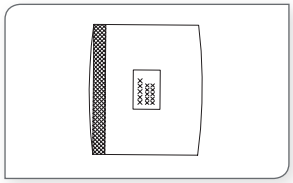
packing



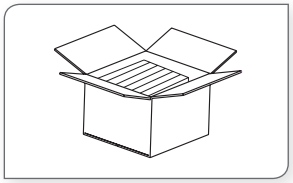
Prepare the desiccant and bind the product.



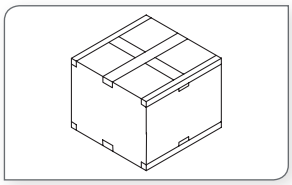
Put the product and desiccant into static shielding bag.



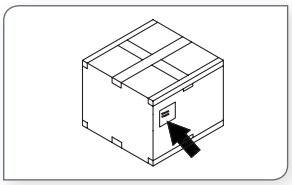
Seal and label the static shielding bag



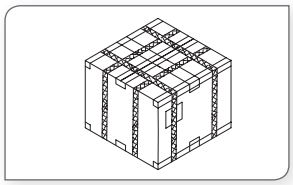
Put the static shielding bag side by side into carton box.



Seal the box.



Label the box;



Use packing belt to pack after adding the edge protectors.

Packaging information

Model No.	Product Size L*W*H(mm)	Carton Size(mm)	PCS/Bag	Bag/Carton Box	Net Weight(kg)	Gross Weight(kg)
PS5-B	77.6*21*8	390*390*325	90	16	17.28(1±10%)	18.65(1±10%)

Note:

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.

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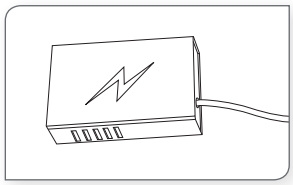
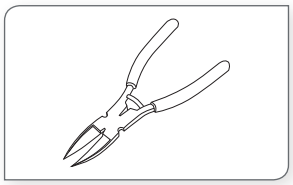
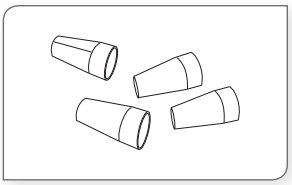
Installation

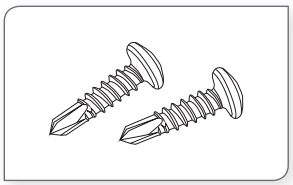
Accessories & Tools

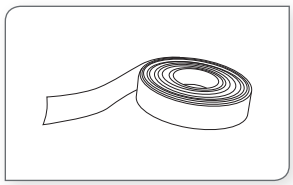

PS5-B


LED power supply

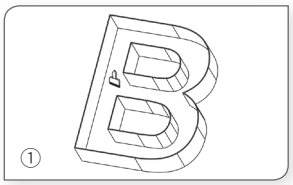

Diagonal Pliers

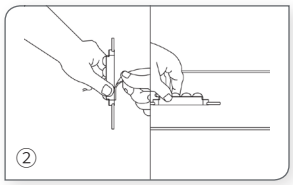

Connection Terminals

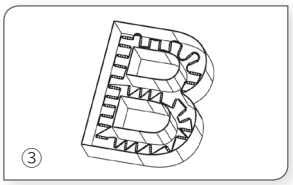

Screws

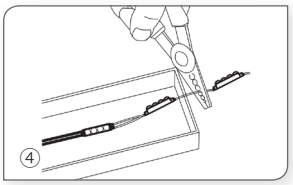

Insulation tape

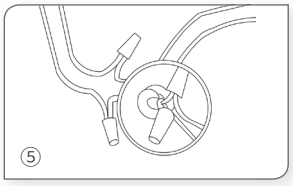
Installation steps

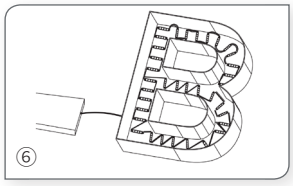












1. Clean the mounting surface.
2. Peel away the release paper on the back of led modules and stick them onto mounting surface.
3. Evenly arrange the led modules with appropriate space.
4. with insulation and waterproof arrangement.
   Note: Cut in the middle of the wire.
5. If the product needs to be connected, it is better to fix with connection ends.
   Note: Treat the wire with insulation,waterproof, and anti-corrosion arrangement as it cannot pull out by hands.
6. Make sure the correct connection of positive and negative poles between led module and power supply.
   Note: Treat the wire with insulation,waterproof, and anti-corrosion arrangement as it cannot pull out by hands.

+86-28-8148 0011
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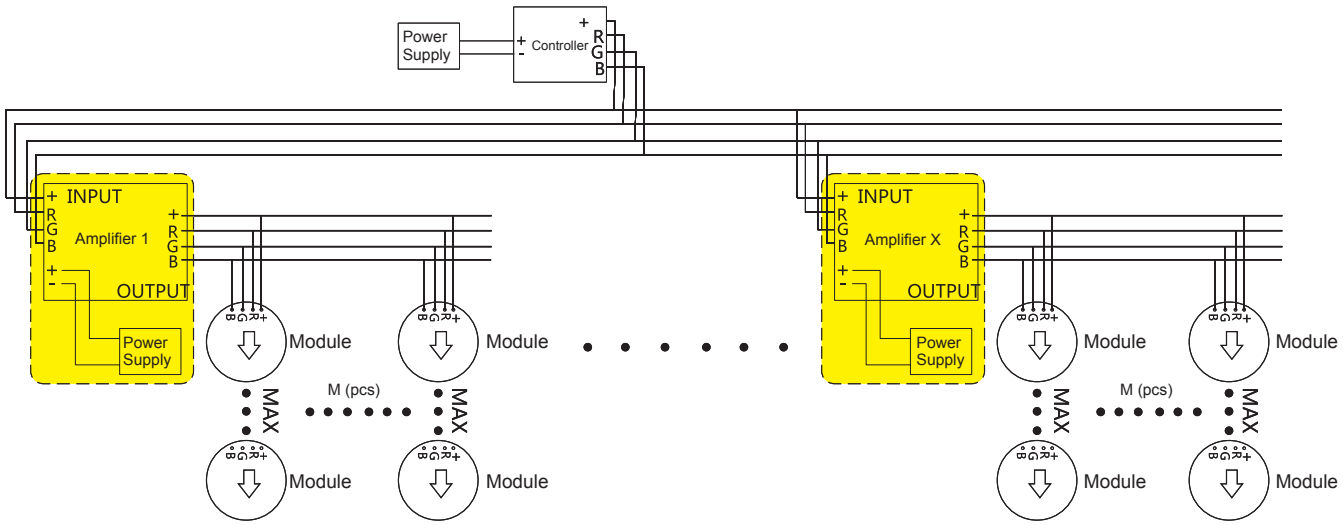
Connection Diagram of Controller



Amplifier power supply rated power (W): P
Product rated power (W): P(module)
Controller load:M(pcs)
Module max run：MAX=30

$$M=\frac{P\times 0.8}{P_{(module)}\times MAX}$$

For example: the product is PS5-B, the max run MAX=30pcs, the power supply is 400W, so the controller load is

$$M=\frac{P\times 0.8}{P_{(module)}\times MAX}=\frac{400\times 0.8}{0.72X30}\doteq 14\,(pcs)$$

Note:
1.The controller's power supply must be consistent with the controller's power requirements.
2.The amplifier must be added to drive the product if the controller is more than 20 meters away from the product, see above.

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Attentions before installation

1. Before installation, check that the product parameters are consistent with the requirements (Seeing product specifications or product labels)
2. Load voltage, current, power and power supply should be matched with the product.
3. Follow the instructions of wiring diagram (first connect the load and then the power supply) to avoid short circuit.
4. Make sure the correct connection of positive and negative poles between products and power supply. Otherwise, the light will not be on.
5. Make sure the power cord firmly screwed into the terminal and it should not be pulled out by hands.
6. The terminal should have insulation,waterproof and anti-corrosive treatment.

Common Faults and Troubleshoot

Quick Guide		
Problems	Reasons	Solutions
All LEDs can not light on.	No electric supply.	Power on
	Automatic power protection from the open or short circuit in output of the power supply.	Fix the short circuit problem.
	Wrong connection of power supply.	
LEDs can not light on partly.	Some switching mode power supplies are not powered.	Check the power supply system to fix it.
	Power supply line error.	
	Mistaken wire connection of some of products	Correctly connection
Brightness of LED is inconsistent tor insufficient.	Power overloaded.	Replace with more powerful power
	Power supply circuit excessive consumption.	Make sure the working voltage of the product within ±5% of standard voltage, or keep balance by circuit power consumption.
	Excessive quantities in series connection of the product	Reduce the quantities of the product in series connection to meet requirement.
LED flicker.	Connection point fault.	Remove bad connection point.
	Switching power supply failure.	Replace a new power supply.
	Wrong Installation or use of products	Please follow the instructions

⚠ 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.

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