

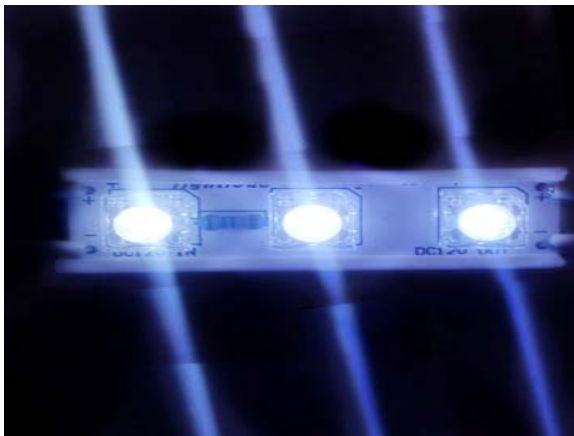
## Super flux LED Waterproof LED Module Series



Judged against the performance of standard neon or fluorescent lamps, RightLEDs Super Flux LED Modules are ideal for signage channel letters which provide significant energy cost reductions (less 40% than neon), easier jobsite installation (splice connector or twist-on wire connector and 3M double-faced sticking tape), free maintenance and more consistent brightness.

Customer segments: Retail, restaurant, hospital, grocery and casino

Part Number: RFS4812-3w



### Features

- **High cost-effective**

Low cost than SMD LED Modules. More Brightness than through hole LED Modules

- **High Brightness**

LED Modules consist of 3 piranha LEDs in high intensity and can emit higher brightness at lower cost. No spot. No shadow

- **Easy Installation**

LED Modules can be easily installed with 3M double-sided sticking tape and connectors.

- **Extended Life**

LED Modules have a life time of more than 30,000 hours.

• **Totally waterproof**

With IP67 protection degree, LED Modules can operate normally in cloudy, rainy, desert, and snowy weather conditions and pool. The Piranha LEDs are totally covered by resin.

• **Friendly environment**

Pb free. With CE/RoHS/SGS certificate, LEDs Waterproof LED Modules are up to 60% more energy efficient than neon.

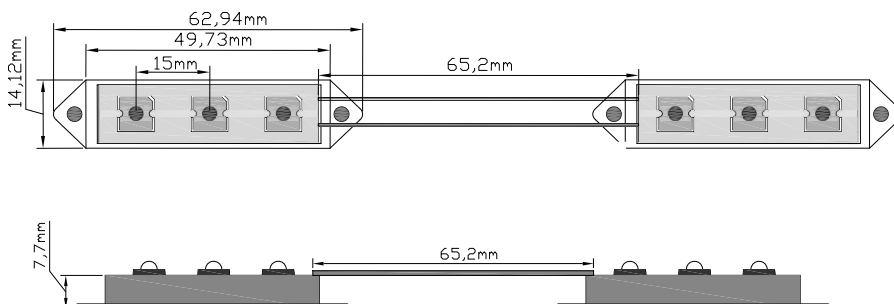
• **Safe Application**

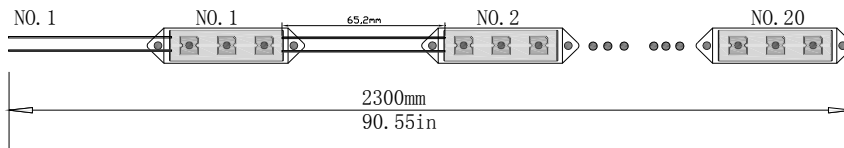
Low voltage DC12V, safety and stable. Free maintenance

## Specification

Dimension	L62.94XW12.12XH7.7mm				
LED No	3 pcs Piranha LED				
Voltage	Input 12VDC				
View angle	90/110/120 degree on available				
Current	20mA	20mA	20mA	30mA	30mA
Watts	0.24	0.24	0.24	0.48	0.48
Lumen	<b>13.2</b>	<b>3.5</b>	<b>12</b>	<b>4.4</b>	<b>6.8</b>
Cover	Milky ABS				
Life	30, 000~50,000 hrs.				
	<b>Lumen Maintenance:&gt;92%@1,000hrs</b>				
Color	White 3500~800k	Blue	Green	Yellow	Red
Operation Temperature	-40°C - 60°C (-40°F ~140°F)				
Certificate	CE:BTRE0708181359 / RoHS: BTRS0708310889				
Warranty	12 months				
Weight	7.5g/pc.450g/60pcs/bag.				
IP	IP67. The PCB and LED be covered by resin.				
Part No	RFS4812-3W	RFS4812-3B	RFS4812-3G	RFS4812-3Y	RFS4812-3R

## Mechanical Dimension





## LED Power Supplies

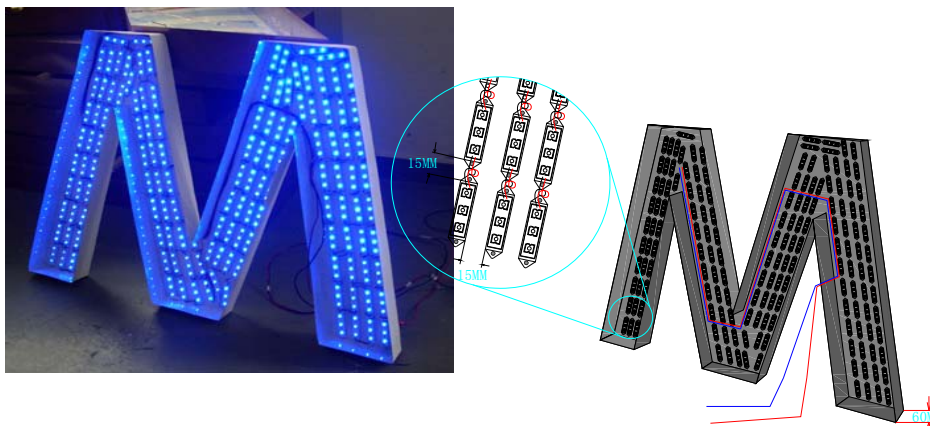
**\*Formulation=Watts per module\*No of Module\*1.1**

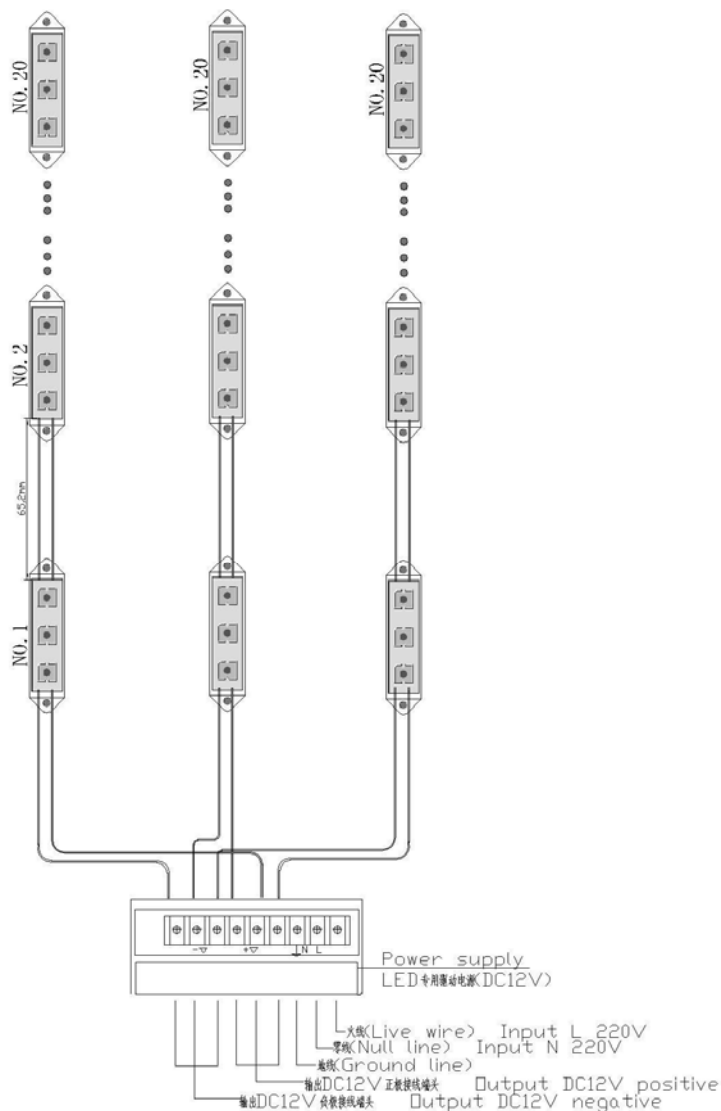
\* Please ensure the power supply is of adequate power to operate the total load.

- Correct electrical polarity needs to be observed.
- Assembly must not damage or destroy conducting paths on the circuit board.

Part Number	Input Voltag	Output Voltage	Watts	Load
RP12-30W	220V AC	12V DC	30	W/B/G 12meters R/Y 7.5Meters
RP12-50W			50	W/B/G 20meters R/Y 12Meters
RP12-60W			60	W/B/G 25meters R/Y 15Meters
RP12-100W			100	W/B/G 42meters R/Y 28Meters
RP12-150W			150	W/B/G 65meters R/Y 48Meters
RP12-200W			200	W/B/G 100meters R/Y 55Meters
RP12-300W			300	W/B/G 125meters R/Y 75Meters
RP12-350W			350	W/B/G 150meters R/Y 97Meters
RP12-400W			400	W/B/G 175meters R/Y 110Meters
RP12-700W			700	W/B/G 310meters R/Y 9Meters
RP12-1000W			1000	W/B/G 440meters R/Y 227Meters

## Installation Guide





1. Clean surface of channel letter.  
Arrange the module in order
2. Fix wires with splice connector or twist-on wire connector
3. Turn on power supply.

Notice

1. Each 20 Unit should be connected in a power loop
2. Max 5 meters between power supply and Unit
3. The right power cable should be noticed
4. Turn power off before inspection, installation.
5. Make sure Ground wire is connected properly
6. 150pcs per square meters
7. .

### Trouble shooting

Symptom	Condition	Solution
All letters are off	No AC input	Attach AC Input and /or check circuit breaker
	Incorrect wire attachment	Check wire connections between strips and power supply for improper terminations or short circuits. Properly terminate or replace the wire connections
Some LEDs appear dim	Overload	Ensure the overall length of strip does not exceed the maximum load of power supply

	Maximum recommended supply wire length exceed	Reduce the length of supply wire equal to or below the recommended maximum
	Mixed part No of LED module within the letter	Make sure that all LED module have the same color temperature/wave length
Some letters have different color temperature or color variation within a letter	Mixed part No of LED module within the letter	Make sure that all LED module have the same color temperature/wave length
Shadows	Wire connections or supply wire laying over on LED module	Re-route supply wire and secure to the back of the can with silicone. Adjust wire connector orientation so that it does not cover LEDs
	Improper position of LED Module	Reposition
Spot	Minimum length between LED module and cover of letter does not reach.	Exchange to other type LED module with wider angle.100mm recommended for Piranha LED module