



## SNOWDRAGON INDUSTRIAL CO.,LTD

Websites: [www.snowdragonledhk.com](http://www.snowdragonledhk.com) [www.snowdragonledproduct.com](http://www.snowdragonledproduct.com)



LED Modules are the latest in efficient mounting systems. Modules are compact in size, may contain several LEDs encased in a simple housing. Some models feature total dust ingress protection, other are fully weatherproof for protection from rain, snow, direct sun light and waterproof (but not submersible) and meet or exceed IP67 / IP68 specifications. Modules can be used indoors or out, the possibilities are endless.

Models includes units which are square or rectangular and encase three or four ultra-bright high efficiency LEDs. Modules may hold three, four and even nine LEDs, in colors such as White, Red, Green, Blue, Yellow or even solutions where Red, Green and Blue LEDs are mixed together to give a RGB lighting effect. We even have modules where a single LED can output three colors.

## Notes on LED modules applications

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The input voltage for LED modules is 12V DC, unless otherwise noted;

Low power LED modules ( [SMD Series](#)) should be connected in a loop for 100 pcs to avoid voltage drop;

High power 1W / 1.5W LED modules ([1W LED modules](#), [1W flat LED modules](#), [1.5W LED modules](#)) should be connected for 50 pcs a loop;

The 3M double sided tapes are for temporary position, for long term use, suggest use silica gel to help strengthen the installation; for silica gel, suggest use high heat conductive ones;

Make sure the polarities are correctly connected, otherwise, damages may happen to modules. For LED Module, grey stands for "+", white for "-";

## Notes on Power Supply application

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No Short circuit allowed at the input side of the power supply;

LED power supply should be installed in venting environments, operating temperature: outdoor -20 C° to 40 C°, relative humidity 100%, indoor -30 C° to 40 C°, relative humidity 90%

No overload is allowed, please calculate as below:

Power supply rated power × 80% ÷ LED Module Rated Power;

For example, if we calculate how many [1.5W LED modules](#) (rated power 1,5W ) can be driven by a waterproof 150W power supply, it is:  $150 \times 80\% \div 1,5 = 118$  pcs;

## Notes on Channel Letter installation



Clean channel letter's board;



Tear off the tape;



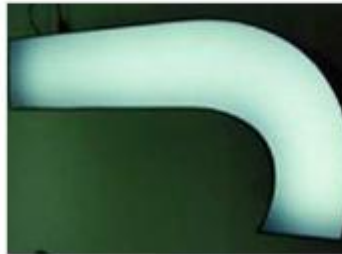
Arrange LED modules;



Check the position LED modules;



Connect to power supply, check the light;



Cover the face, check the light evenness;



Install with heat conductive silica gel;



Done, you made lightened channel letter!