

Technical data

CODE:

569023

PRODUCT:

LED MODULE RGBW

NOTE:

TECHNICAL DATA

IMAGE:**LAST UPDATE:**

1/2026



CATEGORY

LED TECHNOLOGY

DENCOP
LIGHT & BUILDING

LED MODULE RGBW

IP 68	3 LED	DC 12V	0,96 W
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BACKLIGHTING RGBW

Areas of application

- Can be Red/Green/Blue/White light
- Backlighting of channel letters and light box
- Best for 80mm to 150mm depth

Product main benefits

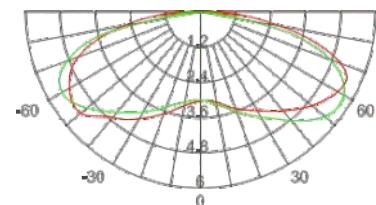
- good optics (bat-wing lens) design to achieve good optical performance
- 3 years warranty

Product features

- 12VDC
- Beam angle 165°
- great weather and UV resistance
- single module can be cut, customization available



Red/Green/Blue/White



Beam angle 165°C

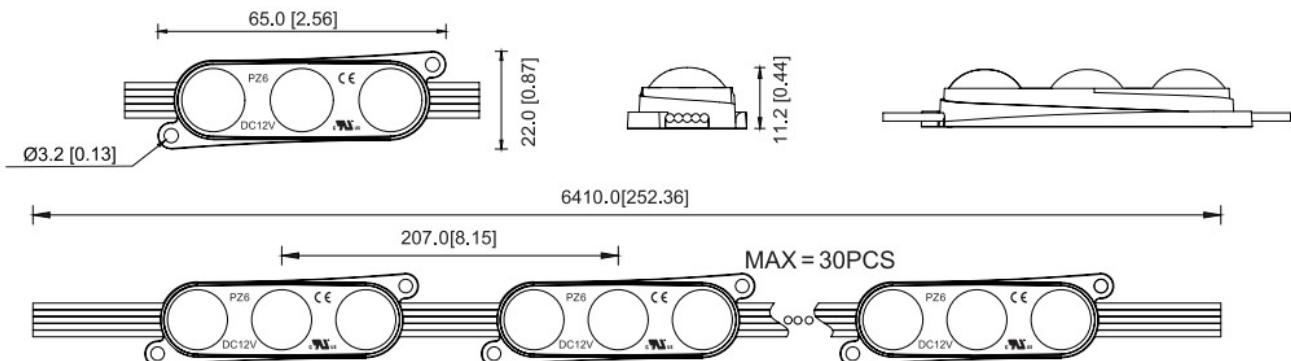
Product size L*W*H (mm)

- 65*22*11,2 mm

Specification

	RED	GREEN	BLUE	WHITE
Typical Voltage	12 VDC	12 VDC	12 VDC	12 VDC
Energy Consumption (W/module)	0.86 W	0.86 W	0.86 W	0.86 W
Additional information (modules/chain)	30	30	30	30
Color (CCT, wavelength)	620-630 nm	520-530 nm	460-470 nm	6500 K
Typical Brightness (lumen/color)	7 lm	15 lm	3 lm	19 lm
Typical Brightness (lumen/module)	48	48	48	48
Working Temperature	-20°C to +60°C	-20°C to +60°C	-20°C to +60°C	-20°C to +60°C
Storage Temperature	-20°C to +70°C	-20°C to +70°C	-20°C to +70°C	-20°C to +70°C
IP Rating	IP68	IP68	IP68	IP68

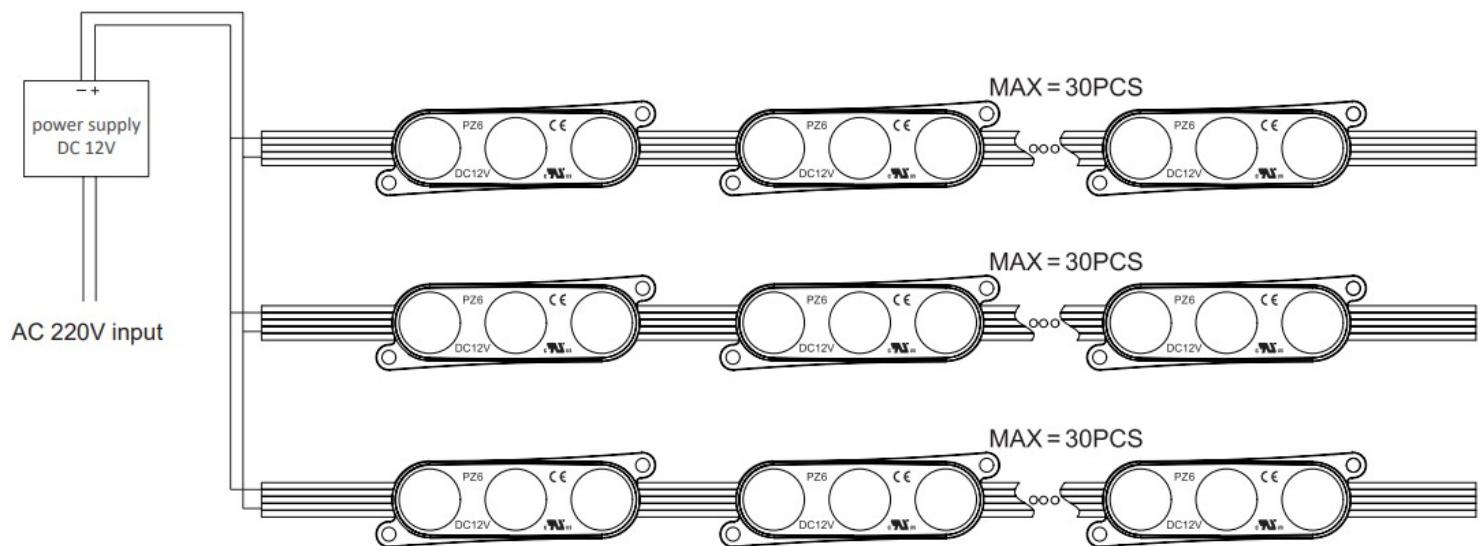
Product line drawing



Packaging information

	Product Size L*W*H (mm)	Carton Size (mm)	psc/bag	bag/Carton	Net Weight (kg)	Gross Weight (kg)
569023	65*22*11,2	390*390*325	60	16	14,05(1+-10%)	15,45(1+-10%)

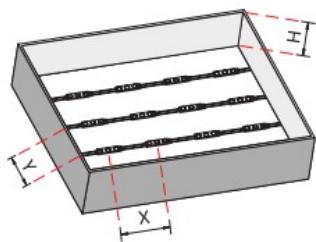
Wiring method



Installation Reference

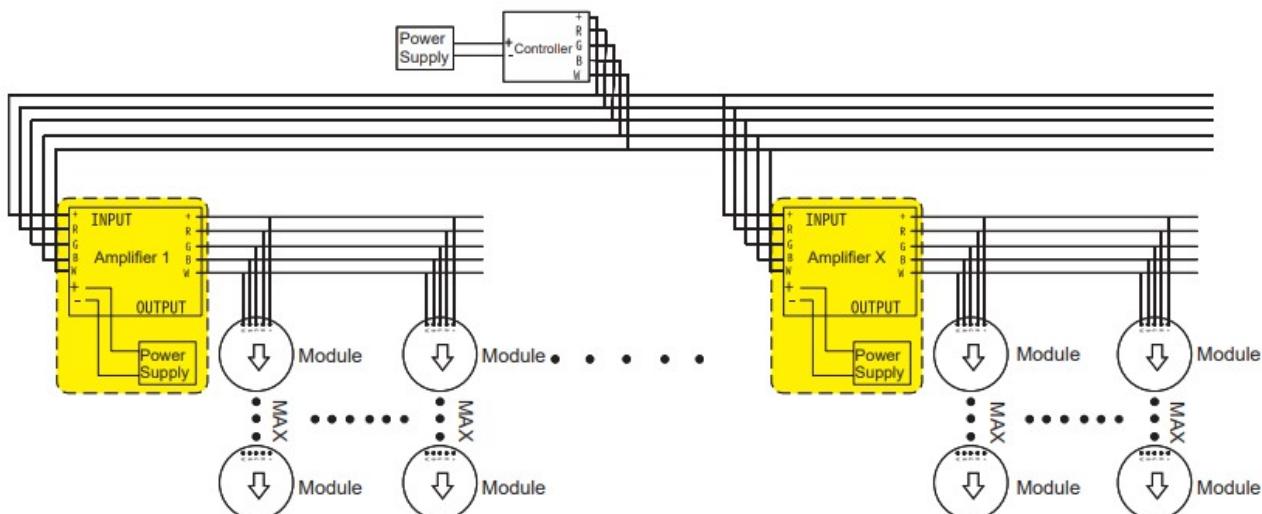
Surface Material	White Soft film	White Soft film	White Soft film	White Soft film
Depth (H) cm	8	10	12	15
Illumination (lux)	2020-2340	1473-1680	1147-1286	917-1006
Evenness	0,86	0,88	0,89	0,91
Density (pcs/m ²)	10*10	8*10	6*8	6*8
Spacing (X*Y) cm	10*10	12*10	15*12	15*12
Watt Density (W/m)	85	68	41	41

Note:

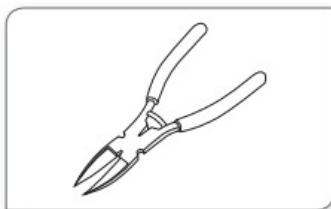


1. X indicates the horizontal center spacing between modules;
2. Y indicates the longitudinal center spacing between modules;
3. Single LED modules are arranged in a square, X=Y.
4. When the depth of light box H>18cm, use more products to satisfy Illumination demand
5. Please contact the sales for other data.
6. Customized wire length available.
7. The above data is for common demand, you can increase the density for actual demand.
8. The above data are obtained when four color of PZ6 are all bright

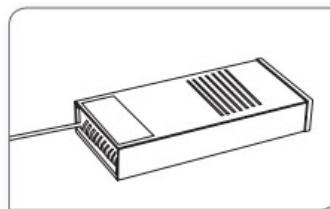
Connection Diagram of Controller



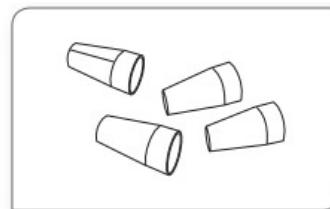
Accessories and Tools



Diagonal Pliers

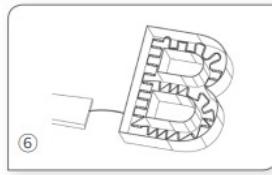
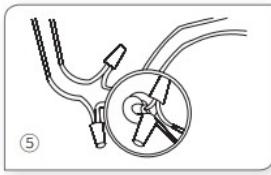
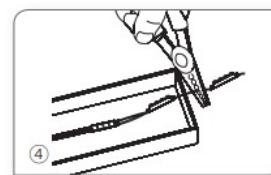
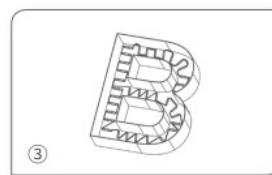
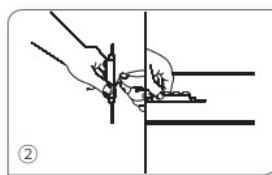
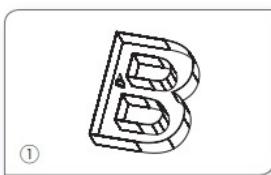


LED power supply



Connection Terminals

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. Cut the modules according to the requirements and treat the cut place 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 thread 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 thread with insulation, waterproof, and anti-corrosion arrangement as it cannot pull out by hands.

Reliability Test

Test Sort	Test item	Reference St.	Test Condition
Waterproof test	IPXX	IEC60529	underwater depth: 1m/1h
	PTC test	Blueview	TH=-40~60°C, continuous cycle, every 2 hours per times (normal temperature for 15 min, temperature rise and fall for 45 min)
	Thermal Shock Test	Product Warranty Policy	TH=80°C/4h, TH=-40°C/4h, continuous lightened up
Environmental test	High Temperature Resistance Test		TH=80°C, continuous lightened up
	Anti-UV Performance Test		TH=60°C, UVB:280~315nm
	Indoor Aging Test		TH=25°C, continuous lightened up
	Rain Test		Rain test 12h everyday, alternative on and off cycle every hour
Flame Retardant	Flame Retardant Performance Test	UL 94	vertical burning test

Additional product information

- Installation of LED modules (with power supplies) needs to be made under consideration of all valid regulations and norms.
- Installation by qualified electrician only.
- Parallel connection is mandatory for safe electrical operation. Serial connection of LED modules is discouraged. Unbalanced voltage drop in serial connection can cause hazardous overload
- Electrical contact is achieved with the contact cables or the terminals of the module. Please refer to the technical data for maximum number of LED modules that can be operated on one control gear.
- To avoid mechanical damage, the LED modules have to be attached securely to the intended mounting surface. It is recommended to avoid heavy vibration.
- LED modules are dimmable by means of PWM (pulse width modulation).