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Specification

Prepared	Checked	Approved

Accepted	Confirmed	Approved

3030 SMD

1 LED

Equipped with optical device

DC **12V**

IP **65**

3 Years

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Model: ◎ M901QB

1pc 3030 SMD LEDs, 40*28*14.5mm [1.57*1.10*0.57in], white housing, equipped with optical device, injection molding, 12Vdc constant current, edge lighting LED module

Picture:

Features:

◎ 3030/1W SMD LED and heat sink substrate with optimal heat-conducting prosperity;

◎ Constant-current driver with consistent brightness and stable work;

◎ Use aluminum substrate as the support of the LED bead and constant current device, guaranteeing great heat dissipation;

Secondary optics design and two beam angle of 35*20, without light spot, good uniformity in LED color;

◎ Good sealing: IP65 protected against damp, water, dust and Impact;

◎ Plastic coated technology, innovative design, aesthetic and elegant.

Applications:

◎ Suitable for double-sided light box at shopping mall, airport, bus station, etc. This product is suitable for 16~40cm [6.29~15.74in] depth double-sided light box, with light emitting directions: from two parallel sides, and the distance between which is over 1m [39.37in].

Warranty:

◎ 3 years or 13,000 hours, whichever comes first.

Optical and Electrical Parameters:

P/N	LED Color	CCT (K)	CRI	SDCM	Beam Angle (°)	Luminous Flux (lm)	Luminous Efficacy (lm/W)	Working voltage (VDC)	Working current (mA)	Power (W/piece)
M901QB	Cold white	9000	⩾75	--	35*20	110	91	12	100	1.2
M901QB	Pure white	6000	⩾75	--	35*20	110	91	12	100	1.2
M901QB	Warm white	3000	⩾75	--	35*20	110	83	12	100	1.2

Others:

P/N	IP Grade	Operating Temp		Storage Temp		Standard cascading qty (pcs)	Single-ended max. cascading qty (pcs)	Double-ended max. cascading qty (pcs)	Weight	
		(℃)	(℉)	(℃)	(℉)				(g/piece)	(lb/piece)
M901QB	IP65	-25~ +60	-13~ +140	-25~ +70	-13~ +158	20	20	40	11.9	0.026

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Notes:

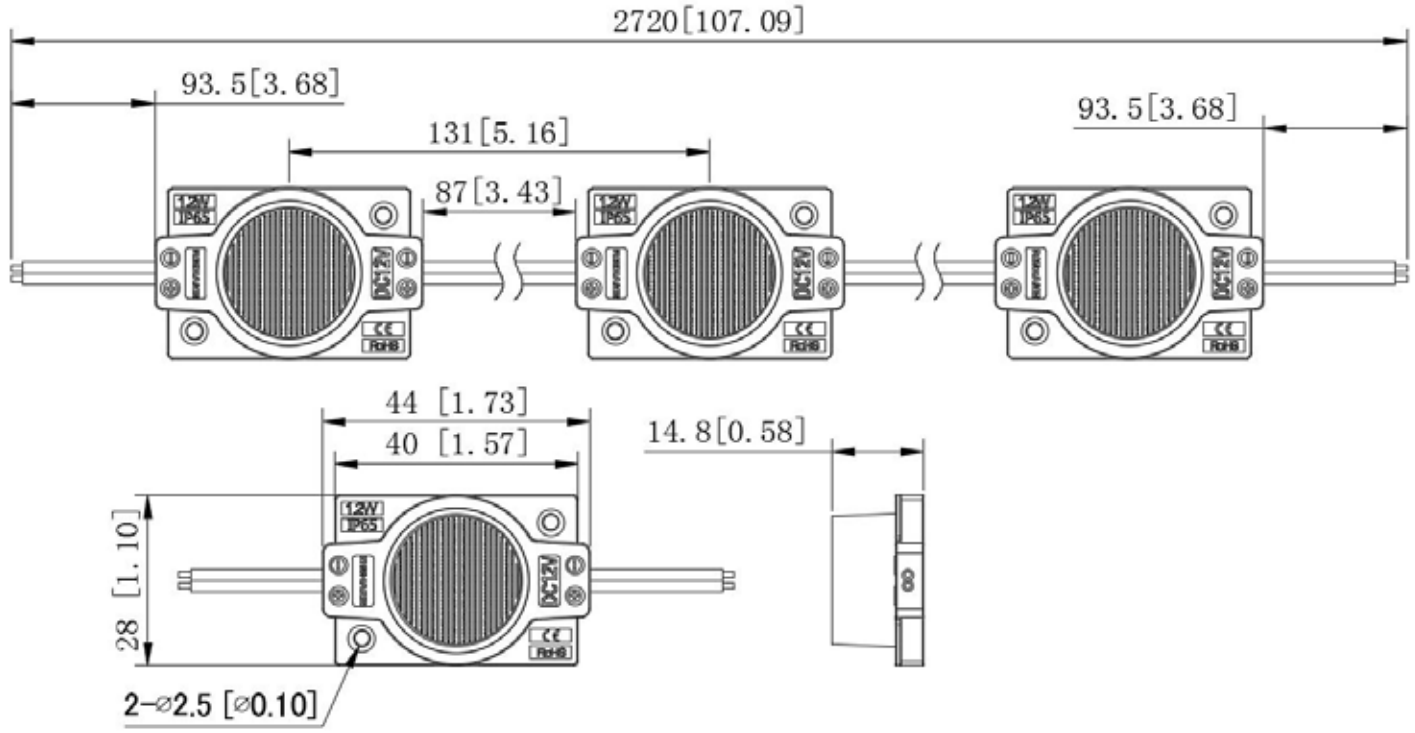
(1) Testing environment temperature: 25±2℃[77±3.6℉]

(2) The actual data of each single product may differ from above typical data which are subject to change without prior notice;

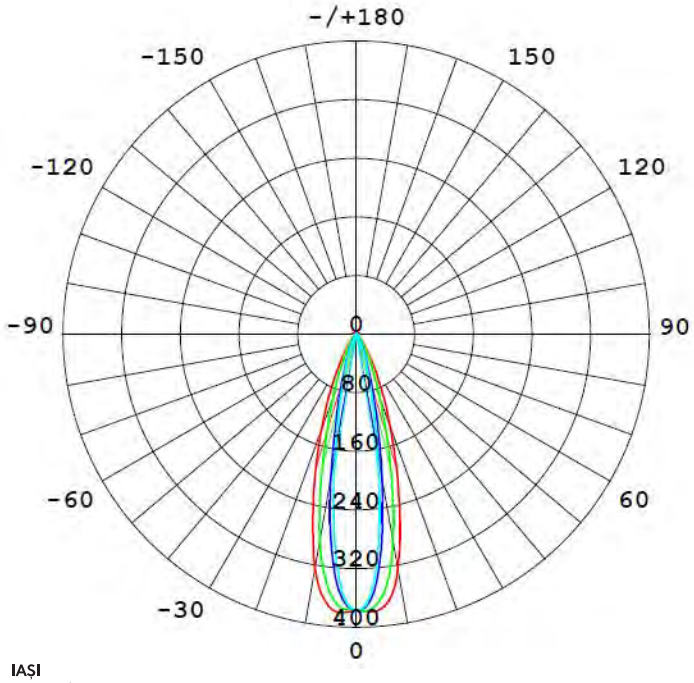
(3) The above "---"means the parameters are not required temporarily.

Profile Drawings:

Unit: mm[inch]



Light Distribution:



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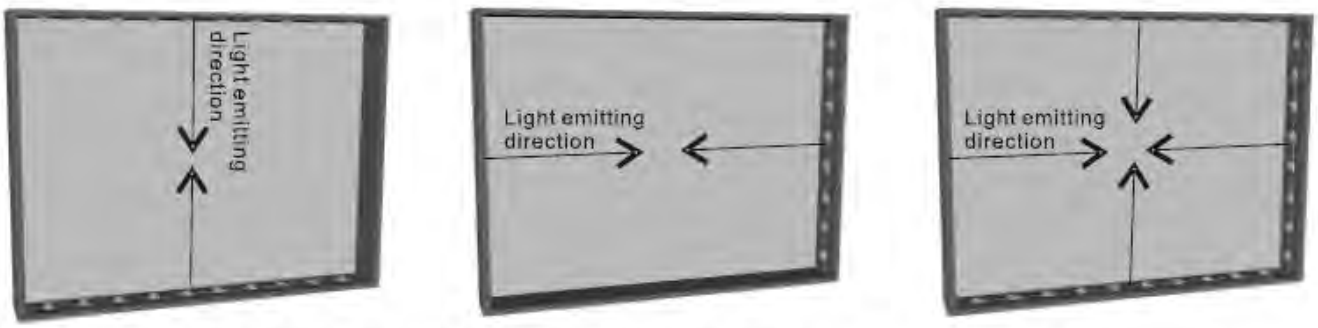
Layout Data:

Depth of Light box(mm)[in] / Illuminance(lux) / Distance between adjacent modules (mm)[in]	160[6.30]	180[7.09]	220[8.66]	250[9.84]	300[11.81]	Notes
70[2.76]	/	/	647	617	564	The data in this form are collected from 2*1.5m[78.74~59.05in]double-sided light box with light emitting directions; from two parallel sides,and the distance between which is 1.5m[59.05in].
130[5.12]	/	/	/	348	312	

Depth of Light box(mm)[in] / Illuminance(lux) / Distance between adjacent modules (mm)[in]	160[6.30]	180[7.09]	220[8.66]	250[9.84]	300[11.81]	Notes
70[2.76]	/	/	/	472	463	The data in this form are collected from 2*1.5m[78.74~59.05in]double-sided light box with light emitting directions; from two parallel sides,and the distance between which is 2m[78.74in].
130[5.12]	/	/	/	/	/	

Depth of Light box(mm)[in] / Illuminance(lux) / Distance between adjacent modules (mm)[in]	160[6.30]	180[7.09]	220[8.66]	250[9.84]	300[11.81]	Notes
70[2.76]	1412	1259	1115	1028	971	The data in this form are collected from 2*1.5m[78.74~59.05in]double-sided light box with light emitting directions; from two parallel sides,from four sides.
130[5.12]	782	735	649	603	563	

Note: white acrylic sheet : 5mm thickness, 40% light transmittance.



Light emitting directions: from two parallel sides

from four sides

Notes:

(1) The above data is for reference only.

(2) The above illumination are average values and tested when the surface illumination is uniform;

(3) Tested with the modules which were built by CCT 6500K LEDs;

(4) "/"refers to uneven illumination;

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(5) This LED module is with high power，for better heat dissipation and effectively ensuring working life span，which must be installed on the surface of metal material

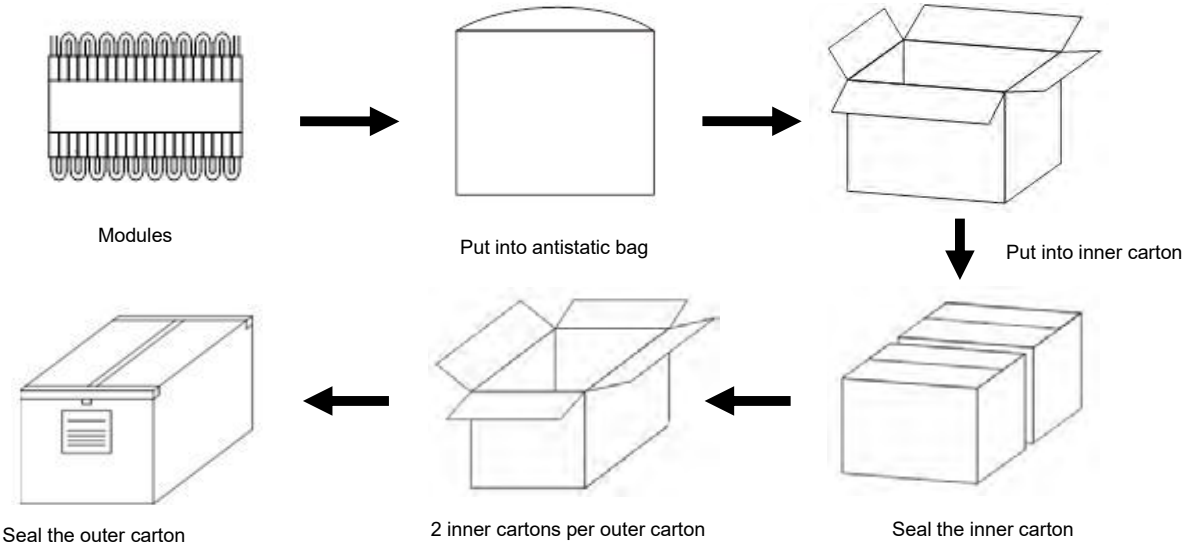
(6) The above data is for reference only.

Packaging Information:

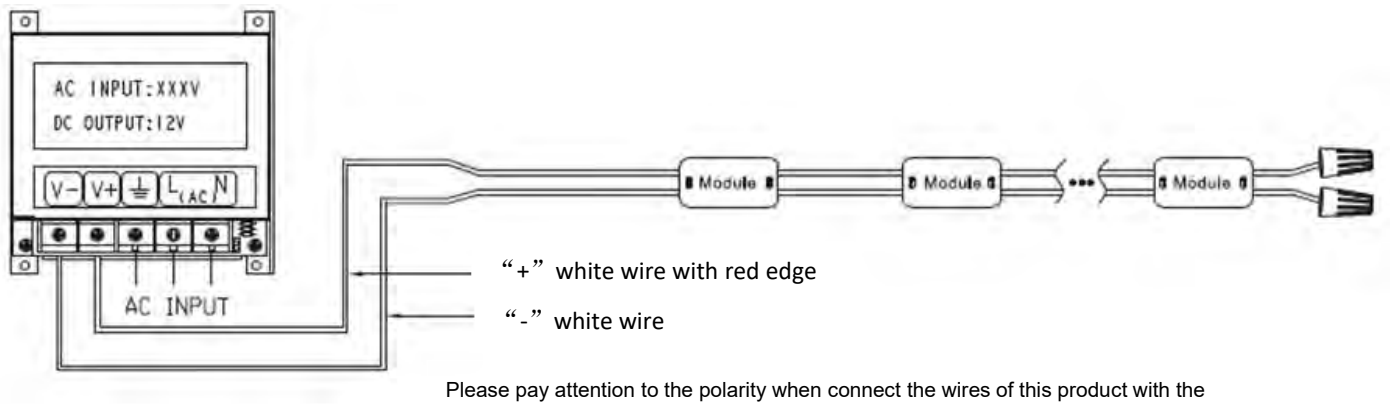
P/N	Qty (pcs/bag)	Qty (bag/carton)	Total Qty (pcs)	Total weight		Outer carton size					
						length		width		height	
				(Kg)	(lb)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)
M901QB	100	10	1000	14.32	35.15	528	20.78	376	14.80	272	10.70

Notes: the actual packed quantity and weight might differ from the above data in other packaging ways. Thus refer to the actual product for detailed information.

Packaging Diagram:



Connection Instruction:



Please pay attention to the polarity when connect the wires of this product with the power supply.

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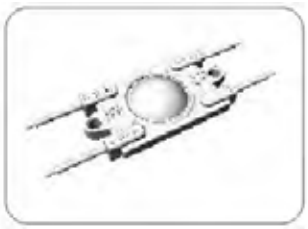
Parts & Tools:

◎ Product Spare Parts



Module

◎ Self-provided Tools

Cutting nipper, Electrical Drill & Drilling bit

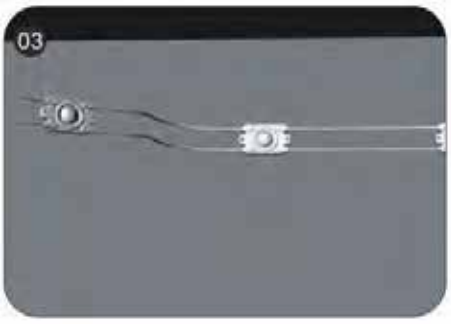
Screw

Installation Steps:

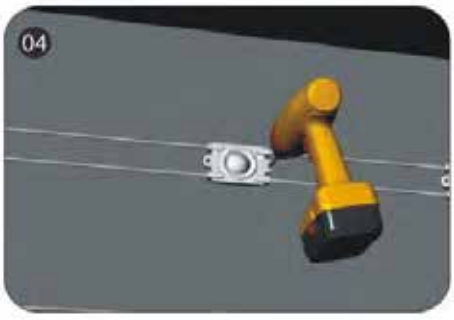
◎ Clean the mounting surface

△Note: This module is of high-power, and has to be installed and use with a metal surface for heat dissipation

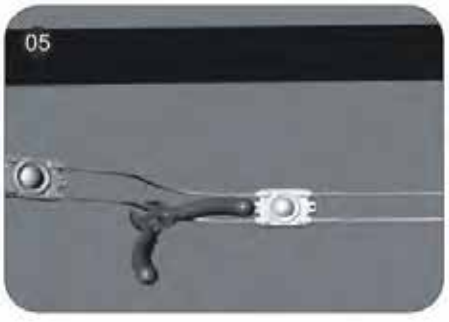
◎ Determine the installing position for modules and the needed qty. Make sure to install it in the middle.



◎ Peel off the release paper of double-sided adhesive tapes, then, stick modules on the installing surface for preliminary mounting.

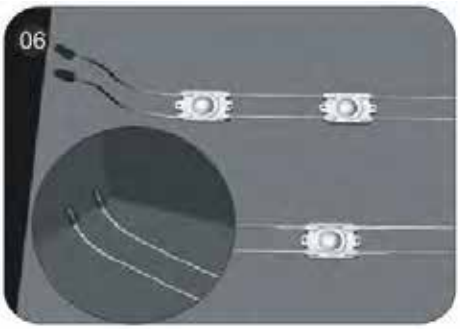


◎ Adjust the modules to the best position, press the double-sided tape tightly and then fixed by screws.



◎ Cut off the modules to the desired qty, and peel off the insulation skin of wires about 10mm

△Note: Please cut from the middle of wires between modules.



◎ When the wires exposed in the last module, please peel off the insulation skin of wires about 10mm each, then, screw in terminals respectively, and dispose with waterproof, insulation protection.

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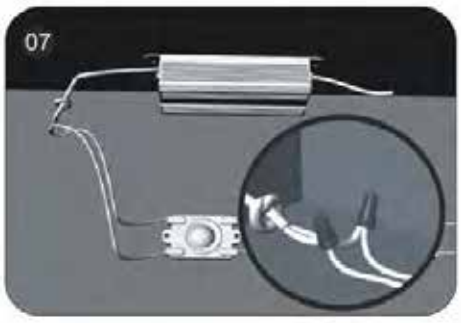

◎ Please ensure that the “+” & “-” of the wires of modules are connected with those of power supply correctly, and dispose with waterproof, insulation, anti- circuit and anti-corrosion protection.

Troubleshooting:

Malfunctions	Possible Causes	Solutions
All LEDs don’t work	1. The power supply did not connect to power grid.	Power on
	2. No electricity due to short-circuit of external power supply	Remove the malfunction caused by short-circuit, power on again
	3. The wires of module connect to power supply output reversely.	Check the connecting and ensure the wires are connected correctly.
Part of LEDs don’t work	1. Part of power supplies do not have output.	Check the power supply system.
	2. Part of module wires have malfunction.	
	3. Particular module connected reversely.	Correct connection
Brightness of LEDs is weak or uneven	1. Overloaded power supply	Replace it with higher power supply
	2. The power loss of power circuit is huge or the power loss of each circuit existing big difference	Ensure working voltage of modules is within±5%V of rated voltage. 1. Shorten the length of wires between the first module and power supply or replaced with wires with bigger diameter; 2. Ensure the cascading qty of string is less than or equal to the allowed maximum cascading qty, and each module cascading qty is well-balanced.
	3. Exceed in qty of modules in series.	Lessen the cascading qty for module and ensure the qty for each electrical circuit is within the maximum cascading qty.
LEDs are blinking	1. Poor contacted in the joints.	Find out and tackle malfunction immediately.
	2. Failures in power supply.	Replace power supply.

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Declaration:

- ◎ If the external flexible cable of light box is damaged, please replace it by its manufacturer or its service agent or qualified person to avoid a hazard.
- ◎ The specific installation and cautions please refer to the user manual.
- ◎ The given data in this specification is based on our standard product. There may be existed slight difference compared with actual products.
- ◎ All Illustrations in this specification are for reference only.
- ◎ This product is subject to change or modify without prior notice.

<End>