

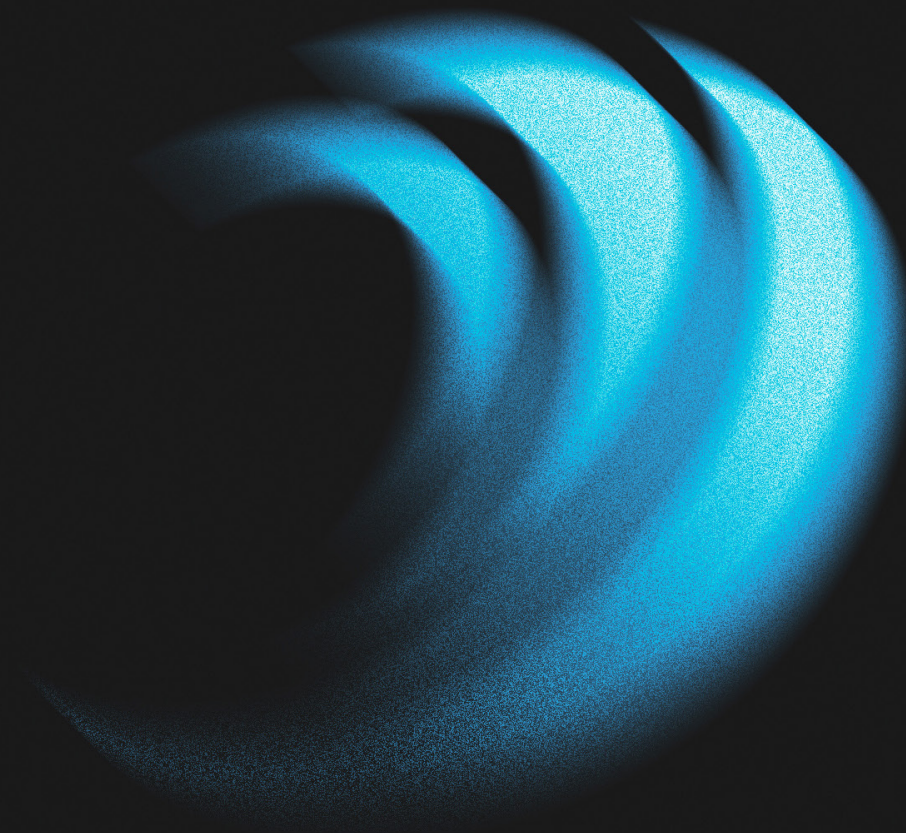


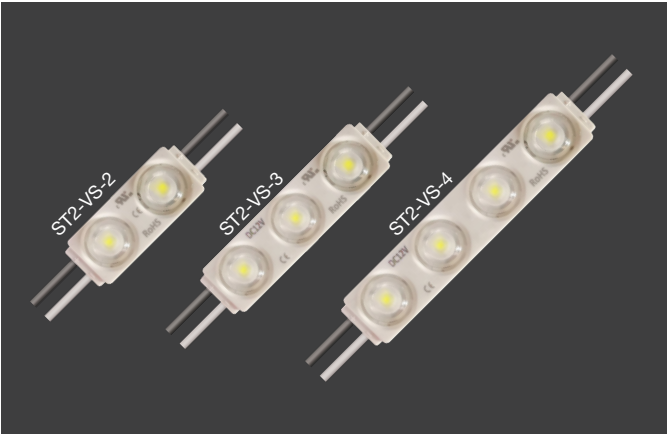
LED

MODULE

ST2-VS

DC 12V
WATERPROOF SERIES





ST2-VS | Waterproof Series

FEATURES

- Designed with diffuse reflection lens, ideal for small and slim channel letters.
- High cost performance, support PWM dimming
- Fully injection-molded for excellent weather resistance.;
- Single module cuttable, easy to install;

APPLICATION

- Suitable for 4-15cm depth back-lit light box, channel letters;

OPTICAL & ELECTRICAL PARAMETERS



Model No.	Voltage	Ra	Color	CCT/Color Available	Typical Luminous Flux Value (Lm/pcs)	Efficacy (Lm/W)	Power (W/pcs)
ST2-VS-2	DC 12V	>70	W	6920-7990K	49	135	0.36
ST2-VS-3	DC 12V	>70	W	2807-3073K	60	125	0.48
				3796-4270K	65	135	
				4699-5285K	65	135	
				6027-6843K	62	130	
				6920-7990K	62	130	
				9000-11000K	58	120	
ST2-VS-4	DC 12V	>70	W	6920-7990K	81	135	0.60

OTHER PARAMETERS

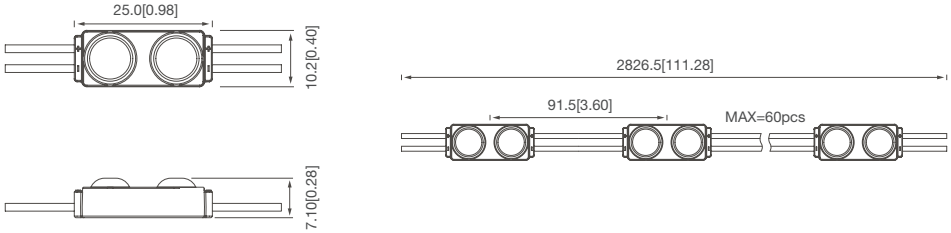
Model No.	LED Qty/pc	Product Size (L*W*H)mm	Standard Run (pcs)	Max Run (pcs)	Working Temperature	Working Temperature
ST2-VS-2	2	25*10.2*7.1	60	60	-25~+60℃	-25~+70℃
ST2-VS-3	3	37*10.2*7.1	50	50		
ST2-VS-4	4	49*10.2*7.1	40	40		

- Note:
- Test environment temperature : 25±2℃.
 - Figures above are typical figures. Actual figures could be different with typical figures, and the data is subject to change without notice.
 - The above luminous flux is based on corresponding light colors.
 - The color temperature and luminous flux may vary when different LED chips are selected.
 - The above light efficacy is the measured value. (Elliptical lens has slightly lower efficacy)
 - Power and luminous flux tolerance within ±10%.
 - The "Quantity"above means the LED quantity of single module.
 - Max run is in single feed.

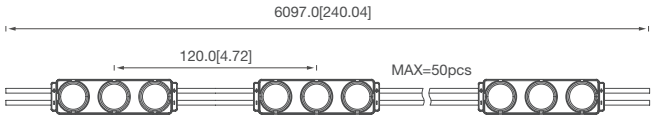
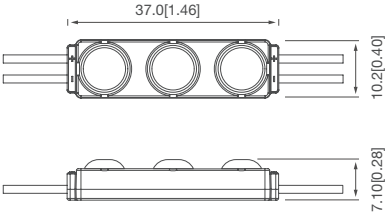
PROFILE DRAWINGS

Unit: mm[inch]

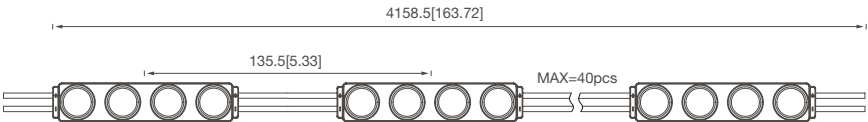
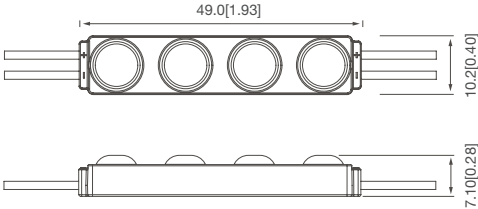
ST2-VS-2



ST2-VS-3



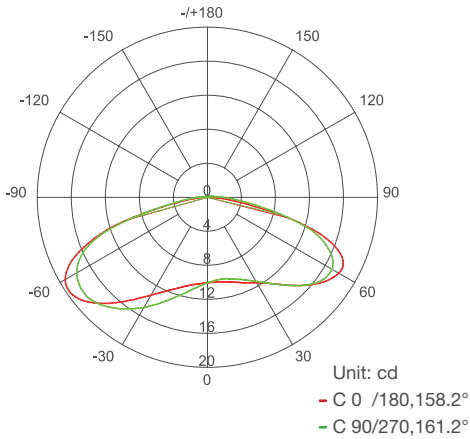
ST2-VS-4



Note: For more info, please contact sales rep.

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

AVERAGE ILLUMINATION

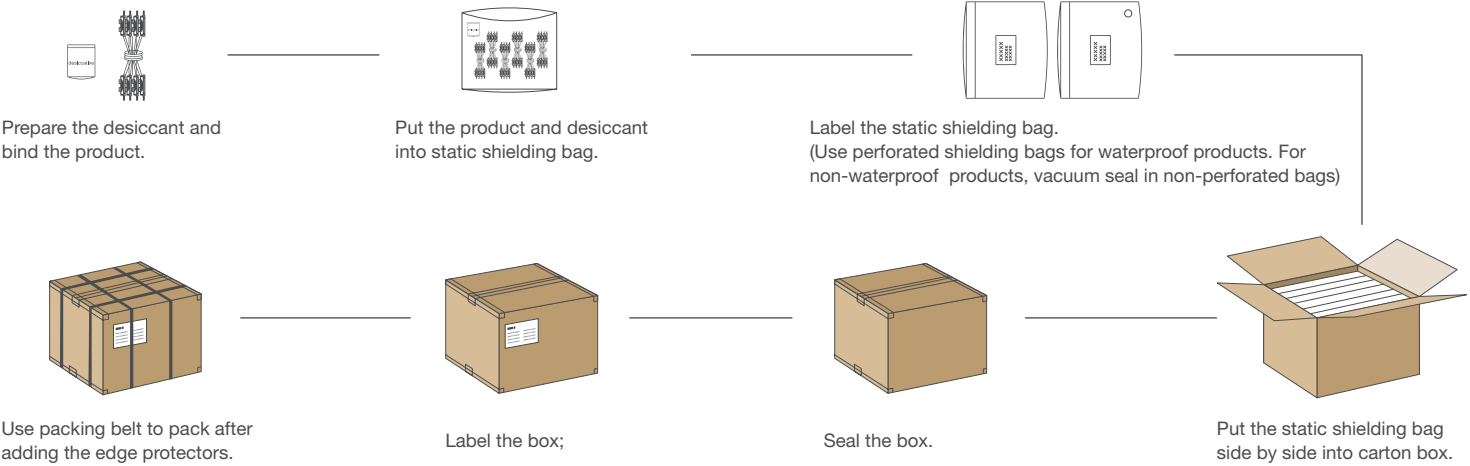


AVERAGE BEAM ANGLE(50%): 159.7°

Flux Out: 74.01lm		CCT=7000K	
Height	Eavg, Emax	Beam Angle: 158.22°	Diameter
0.02m	1831,25610lx		20.79cm
0.04m	457.8,6402lx		41.58cm
0.06m	203.5,2846lx		62.37cm
0.08m	114.4,1601lx		83.16cm
0.10m	73.25,1024lx		103.95cm
0.12m	50.86,711.4lx		124.75cm
0.14m	37.37,522.6lx		145.54cm
0.16m	28.61,400.1lx		166.33cm
0.18m	22.61,316.2lx		187.12cm
0.20m	18.31,256.1lx		207.91cm

Note: the above two figures are tested with the sample ST2-VS-4 at CCT 7000K, for other data, please consult sales rep.

PACKING

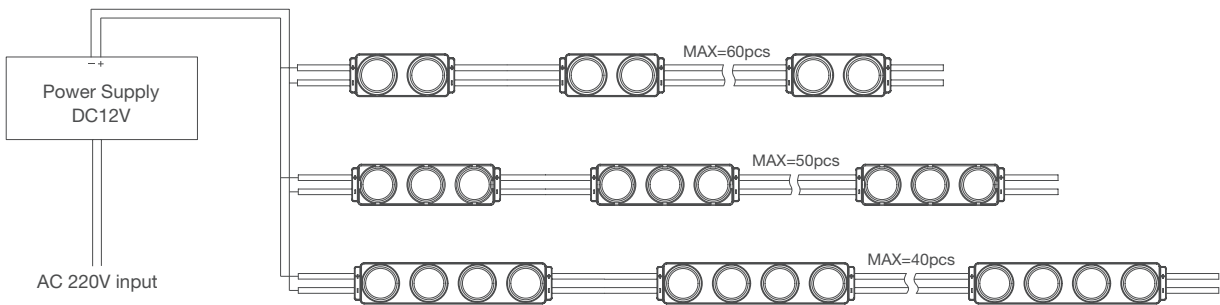


Model No.	Product Size(mm)	Carton Size(mm)	PCS/Bag	Bag/Carton Box	Net Weight (kg)	Gross Weight (kg)
ST2-VS-2	25*10.2*7.1	390*390*325	240	14	8.73 (1±10%)	9.82 (1±10%)
ST2-VS-3	37*10.2*7.1	390*390*325	250	12	11.70 (1±10%)	13.10 (1±10%)
ST2-VS-4	49*10.2*7.1	390*390*325	120	16	9.60 (1±10%)	10.72 (1±10%)

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.

INSTALLATION

Connection Diagram



ST2-VS-2

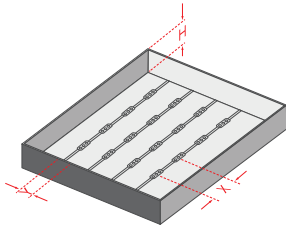
Surface Material	Depth (H)cm	Illumination (lux)	Evenness	Density (pcs/m²)	Spacing (X*Y)cm	Power Density (W/m²)	Visual Effects
White Soft Film	4	10160-11700	0.87	33*33	3*3	392	OK
	5	8260-8920	0.93	33*33	3*3	392	
	6	4360-4710	0.93	17*17	6*6	104	
	7	3760-3960	0.95	17*17	6*6	104	
	8	2040-2320	0.88	11*11	9*9	43	
	10	1556-1745	0.89	11*11	9*9	43	

ST2-VS-3

Surface Material	Depth (H)cm	Illumination (lux)	Evenness	Density (pcs/m²)	Spacing (X*Y)cm	Power Density (W/m²)	Visual Effects
White Soft Film	5	9980-11160	0.89	25*25	4*4	313	OK
	6	7800-8640	0.90	25*25	4*4	313	
	7	5050-5630	0.90	16*16	6*6	128	
	8	3060-3410	0.90	12*12	8*8	72	
	10	2010-2210	0.91	10*10	10*10	50	

ST2-VS-4

Surface Material	Depth (H)cm	Illumination (lux)	Evenness	Density (pcs/m²)	Spacing (X*Y)cm	Power Density (W/m²)	Visual Effects
White Soft Film	5	9600-10580	0.91	17*17	6*6	173	OK
	6	8090-8630	0.94	17*17	6*6	173	
	8	3490-3800	0.92	10*10	10*10	60	
	10	2060-2210	0.93	7*7	13.5*13.5	29	
	12	1766-1872	0.94	7*7	13.5*13.5	29	



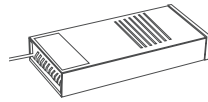
Note:

- X indicates the horizontal center spacing between modules;
- Y indicates the longitudinal center spacing between modules;
- Single LED modules are arranged in a square, $X=Y$.
- When the depth of lightbox $H>12\text{cm}$, use more products to satisfy illumination demand.
- For other data, Please consult sales rep.
- Customized wire length available.
- The above data is for common demand, you can increase the density for actual demand.

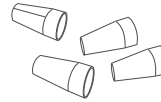
ACCESSORIES & TOOLS



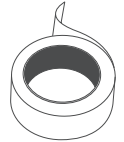
Electric drill



LED power supply

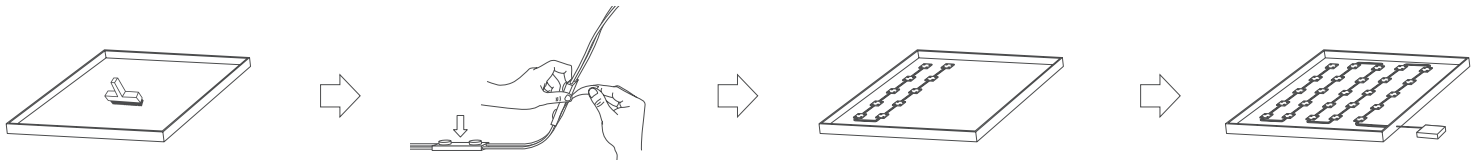


Connection terminal



Insulation tape

INSTALLATION STEPS



1. Clean the mounting surface free of dust and debris.
2. Peel away the self adhesive tape on the back of product and mount it onto the lightbox bottom.
3. Prefix the product and make sure it is flat and evenly arranged in light box.
4. Fix the product with screws and check and ensure correct wiring, then power on for self-test.

ATTENTIONS BEFORE INSTALLATION

- Before installation, please check whether the parameters of the product are consistent with the requirements (Seeing the Product Specification or Label).
- The voltage, current, and power of the power supply and load used must be consistent with this product.
- Follow the instructions of wiring diagram (first connect the load and then the power supply) to avoid short circuit.
- Product wires must be correctly connected to the positive and negative terminals of the power output, otherwise the light will not turn on.
- The power cord should be tightly screwed into the terminal, with a recommended tightness that cannot be pulled out by hand.
- The connection terminals must be effectively waterproof and corrosion-resistant.
- If the working length exceeded the max run length, make sure to have extra power supply.
- If it needs higher current of a LED, make sure having extra cooling.

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.

Version	Content	Date
A1.1	Update: add the data of ST2-VS-3	2025-6-27

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