

VF-480 Series Flexible LED

Display Module

SIZE: 480X320

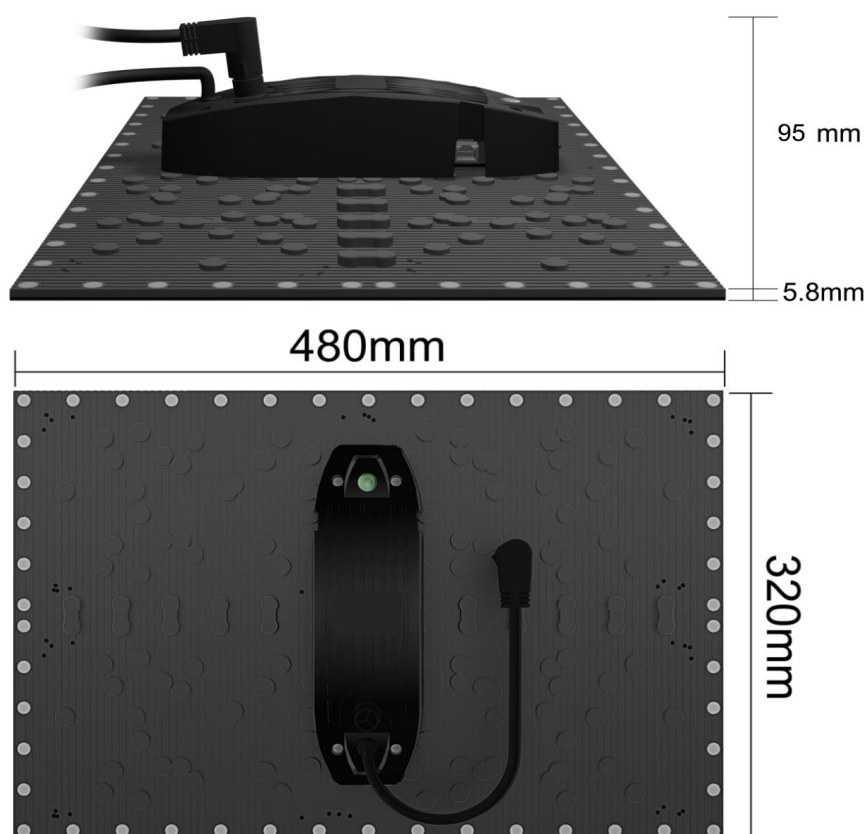


1. Products Introduction

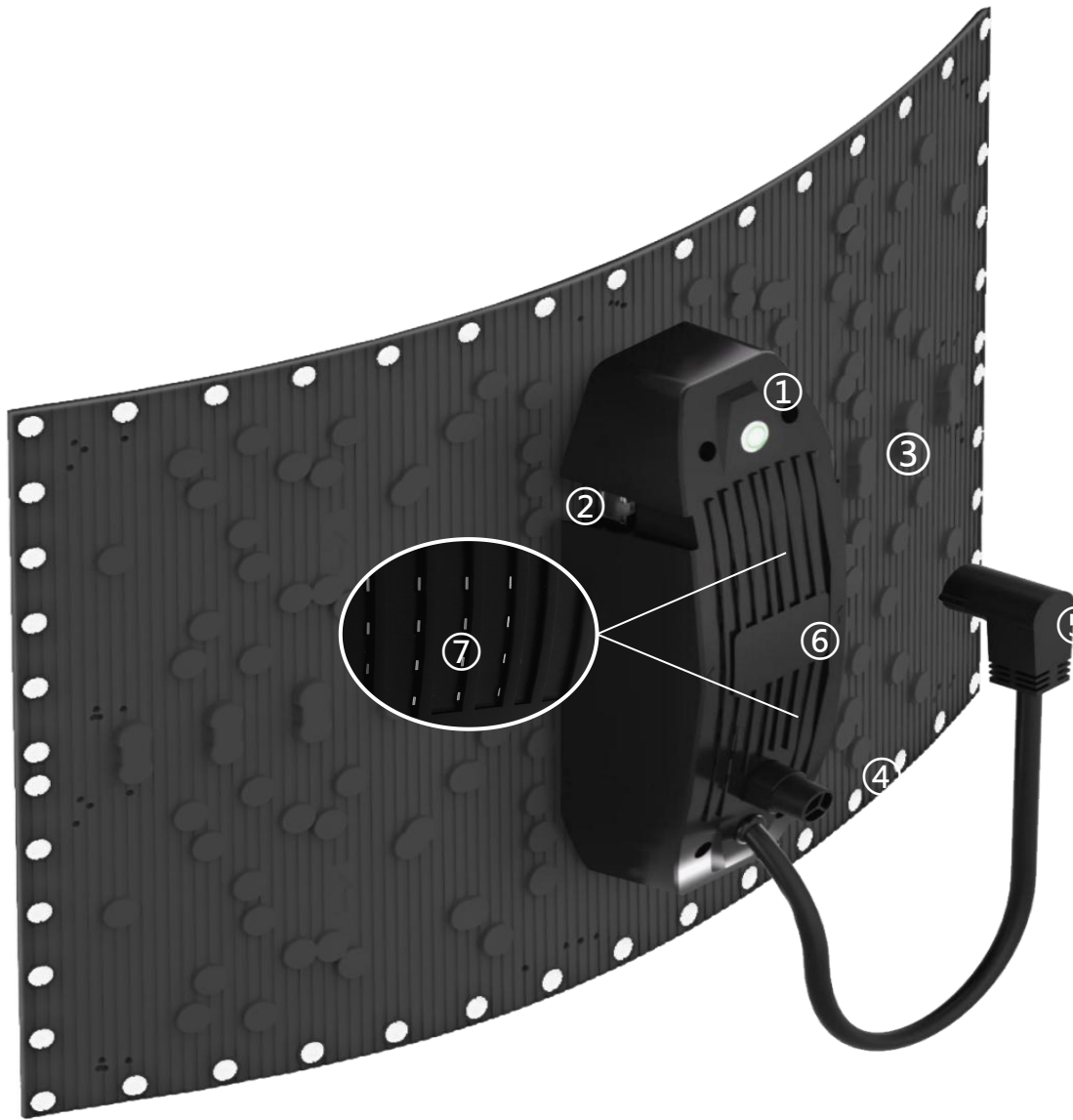
The VF-480 series is an integrated 480*320mm flexible indoor screen with a rigid connection design. It combines the module, power supply, receiver card, and HUB board into one unit. On-site installation requires only simple connection of network and cable cables, reducing on-site installation steps and greatly improving efficiency. The screen features neat wiring, an aesthetically pleasing design, good flatness, and quick and easy installation.

It is flexible, supporting inward-curved screens, outward-curved screens, and large-curvature ribbon screens, allowing for free and flexible construction of the desired display shape, providing more possibilities for creators and users!

2. Product dimension



3. Interface Description



- | | |
|------------------------------|--------------------------|
| ① Indicator light | ⑤ 100V-240V power output |
| ② Left end signal interface | ⑥ nameplate |
| ③ Right end signal interface | ⑦ Heat dissipation holes |
| ④ 100V-240V power input | |

4. Products Features

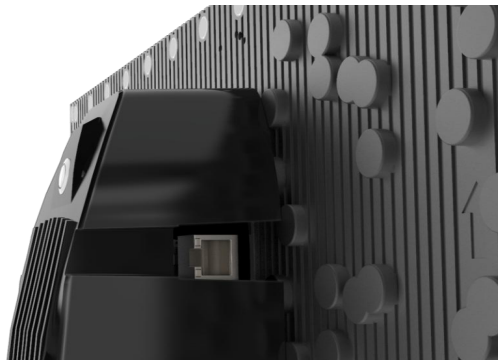
- Integrated design

Plug and play, simple operation, quick assembly and disassembly, efficient and convenient to use;



- Fully enclosed package

With a delicate touch, it enhances moisture and dust resistance, preventing rodent damage and effectively protecting the module, thus extending its service life.



- Limit bending 158 degrees

Made of flexible material, it is easy to bend in and out without any burden, and fits more snugly.



- High flatness

Surface flatness ≤ 0.3 mm to ensure smooth image transition and avoid image breakage and distortion.



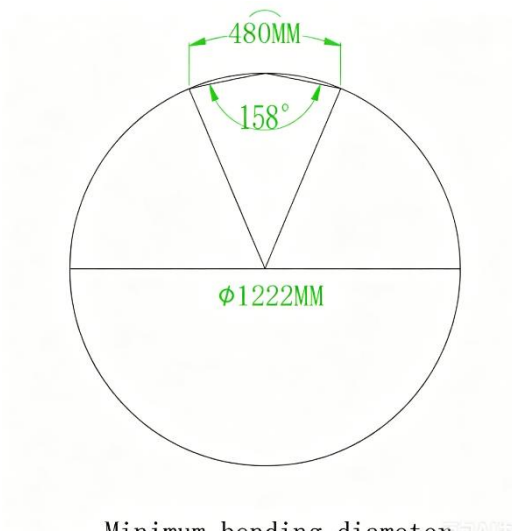
- Ultra-thin design

Each module weighs 1.7kg and is only 5.8mm thick;



5. Soft module bending curvature

The inner and outer arcs are composed of 8 modules, with a minimum cylinder diameter of 1222mm.。



Minimum bending diameter 1222mm

6. Technical parameters

Model		P1.5	P1.8	P2.5
Technical parameters	Pixel configuration	1R1G1B (Full Color)	1R1G1B (Full color)	1R1G1B (Full color)
	LED Chip Packaging Specifications	SMD1212	SMD1515	SMD1515
	Pixel Density (dots/m ²)	406380	286648	160000
	Module Size (mm)	480X320X5.8 (Length*Height*Thickness)	480X320X5.8 (Length*Height*Thickness)	480X320X5.8 (Length*Height*Thickness)
	Module Resolution	306X204	256X172	192X128
	Scanning Method (scan)	51	43	32
	Standard Constant Current IC	PWM	PWM	PWM

	Refresh Rate (Hz)	3840	3840	3840
	Frame Rate (Hz)	60	60	60
	Grayscale Level (bit)	14	14	14
	Minimum Assembly Diameter	1222	1222	1222
	Minimum Bending Radius	≥158°	≥158°	≥158°
	Signal Interface Type	Hard Connection	Hard Connection	Hard Connection
	Module Base Shell Material	Silicone Soft Base	Silicone Soft Base	Silicone Soft Base
	Module Weight (kg/sheet)	1.7	1.75	1.5
	Flatness (mm)	≤ 0.3	≤ 0.3	≤ 0.3

	Module Protection Rating	Rear IP20 / No Protection on Lamp Surface	Rear IP20 / No Protection on Lamp Surface	Rear IP20 / No Protection on Lamp Surface
	Installation/Maintenance Method	Front Mounting / Front and Rear Maintenance	Front Mounting / Front and Rear Maintenance	Front Mounting / Front and Rear Maintenance
Optical parameters	Brightness (cd)	600	650	600
	Color Temperature (K)	10000-12000 K adjustable	10000-12000 K adjustable	10000-12000 K adjustable
	Coordinates	X:0.2500 Y:0.3000 ± 0.01	X:0.2500 Y:0.3000 ± 0.01	X:0.2500 Y:0.3000 ± 0.01
	Horizontal/Vertical Viewing Angle	X:150° / Y:120°	X:150° / Y:120°	X:150° / Y:120°
	Contrast Ratio	6000:1	6000:1	6000:1
Electrical parameters	Module power supply voltage DC (V)	4.2	4.2	4.2

	Module maximum current DC (A)	14	14	14
	Module maximum power consumption (W/PCS)	65	65	65
	Operating input voltage AC (V)	100-240	100-240	100-240
	Peak power consumption (W/m2)	440	440	440
	Average power consumption (W/m2)	132	132	125
Use parameters	Typical lifespan (h)	100 000	100 000	100 000

	Operating ambient temperature/h umidity	-10—40℃, 20%—85%RH non-condensing	-10—40℃, 20%—85%RH non-condensing	-10—40℃, 20%—85%RH non-condensing
	Storage ambient temperature/h umidity	-40—60℃, 20%—80%RH non-condensing	-40—60℃, 20%—80%RH non-condensing	-40—60℃, 20%—80%RH non-condensing
Function	Flash Function	optional support	optional support	optional support

7. Application areas

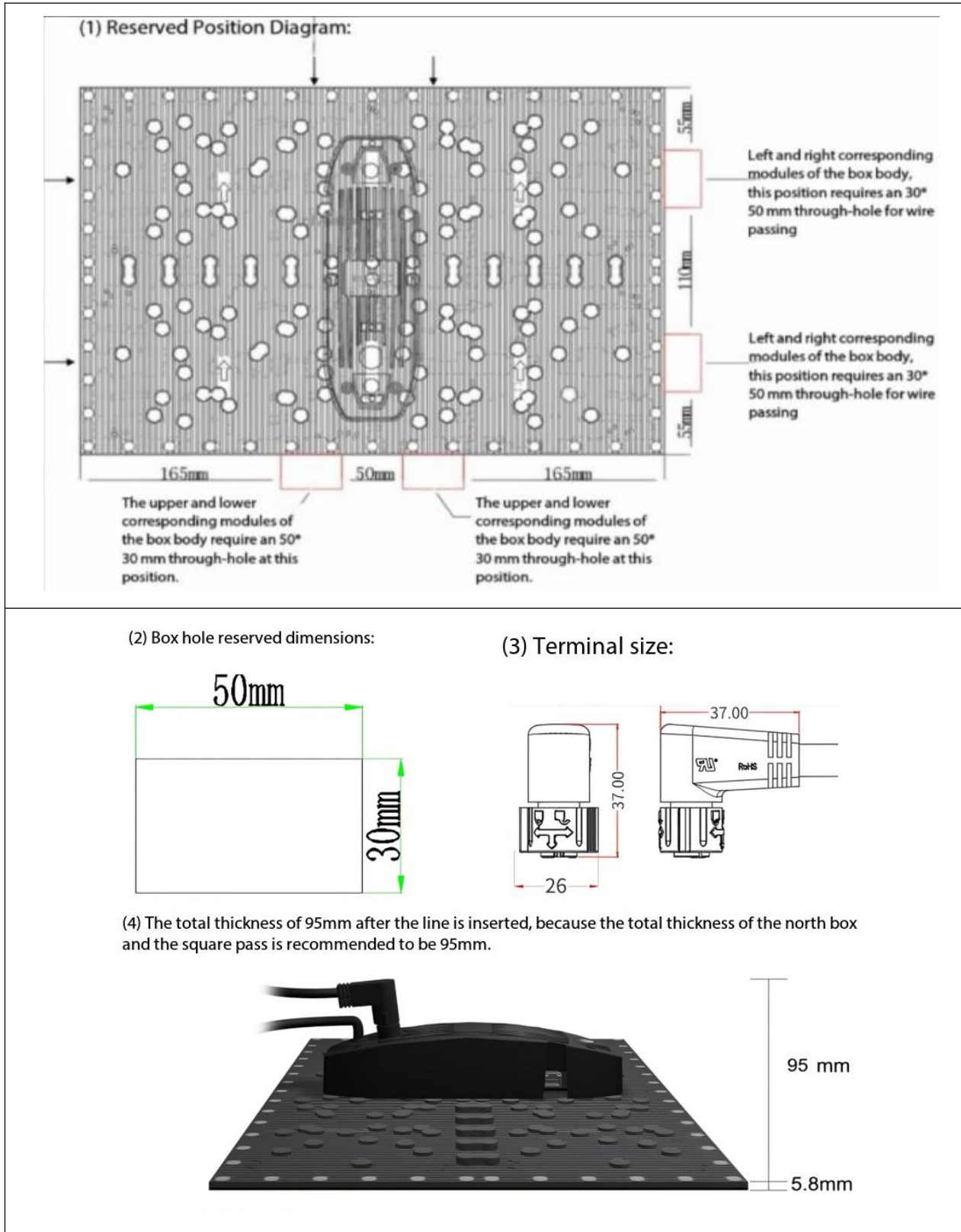
The VF-480 series flexible modules support free shaping within a safe angle, allowing for various combinations into different shapes, whether it's a flat screen, a curved screen, or other creative shapes such as waves or cylinders. This product can flexibly realize all of these.



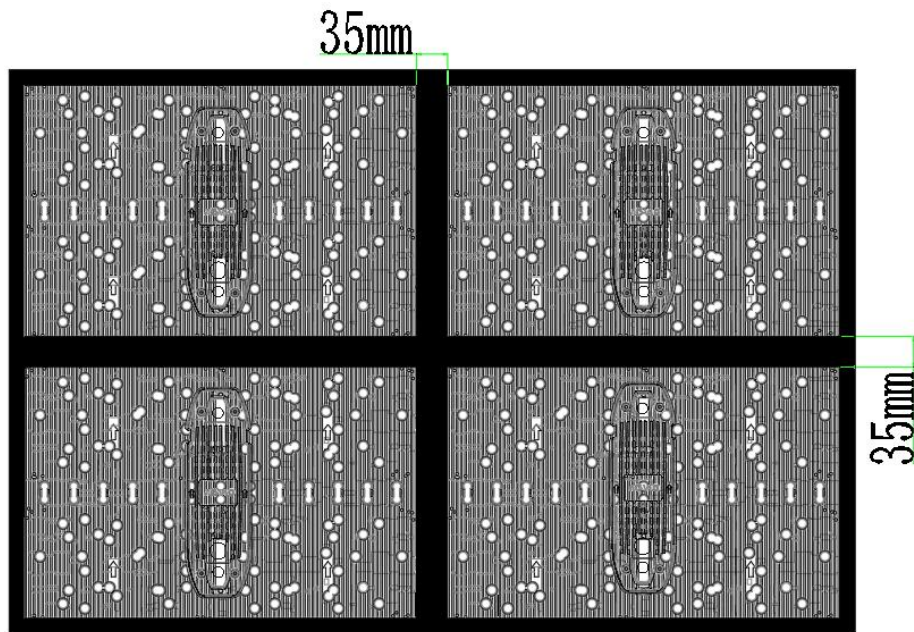
Currently, LED displays are widely used in various fields, such as stages, shopping malls, bars, and science museums. Their application areas are still expanding, with many more undiscovered possibilities awaiting exploration.



8. Cabinet wiring hole reservation



9. Cabinet width



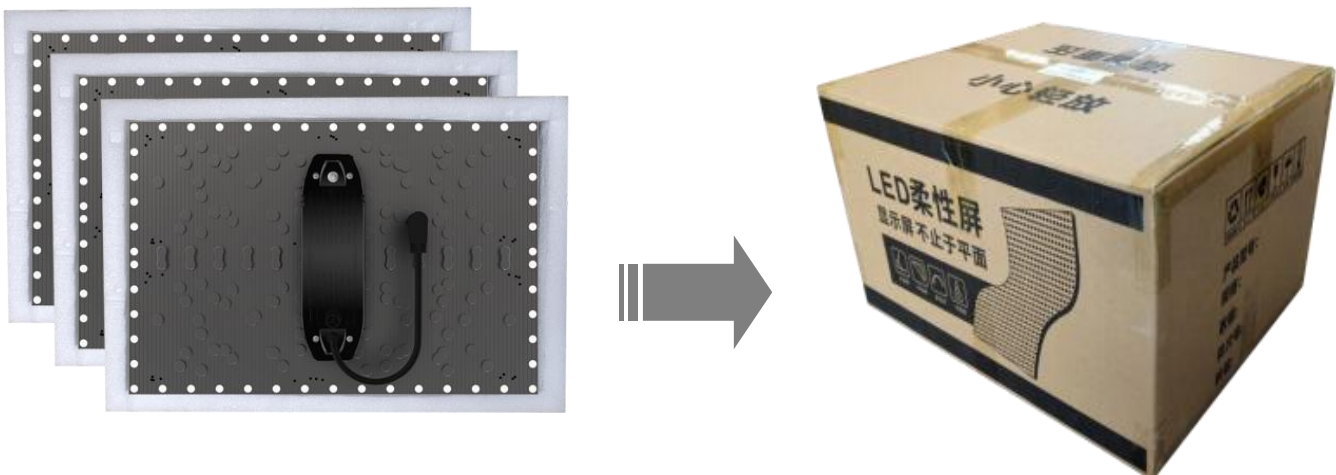
10. Electric load



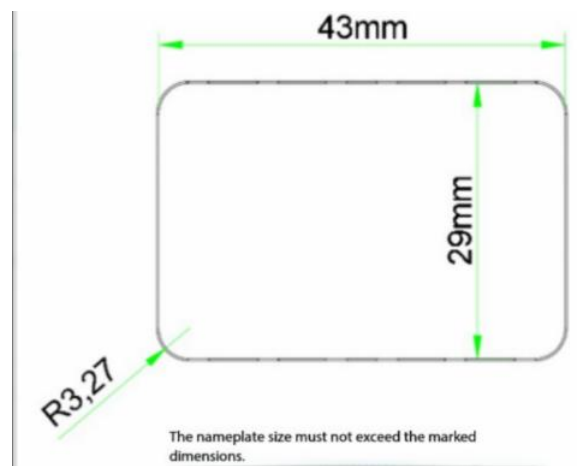
With an input voltage of 100V~240V AC power, up to 20 units can be cascaded together.

11. Product Packaging

Module size (mm)	Outer box dimensions (mm)	Number of modules (pcs)	Total weight of the box (KG)
480*320	535*375*620mm	6	12



12. Nameplate size



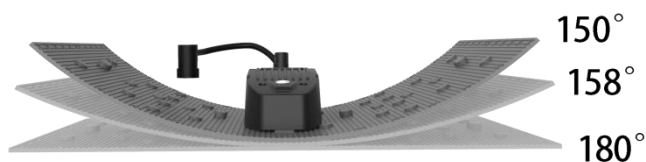
13. Installation details

1. Contains high voltage; do not touch components. The back cover must not be disassembled by non-professionals.
2. Do not work with the power on. Power cords can be cascaded up to a maximum of 20 units. Plug and unplug cables gently.
3. Wear anti-static gloves during installation. Handle modules with care.
4. Clean dust with a soft-bristled brush. Do not wipe with a damp cloth or hard objects.
5. Do not violently strike, tear, or repeatedly bend the modules.
6. It is recommended to use a sheet metal structure enclosure (installed after painting). Avoid using galvanized iron square tubing (as this will cause unevenness and damage to the modules).
7. Keep the display screen away from air conditioners, water tanks, and other sources of moisture. Do not splash water on it or place it directly in front of air conditioner vents.
8. Modules must be separated by protective partitions. Do not stack them without partitions.

* Product malfunctions and damages caused by failure to comply with the installation instructions or by human error are not covered by the manufacturer's warranty. Please keep all relevant documents and accessories safe. If you have any questions, please contact our company. This document will be updated from time to time. Our company ensures the accuracy and reliability of the contents of this product specification, but reserves the right to modify the contents of the specification without notice. Customers should contact our service team to obtain the latest relevant information before placing an order and verify that this information is complete and up-to-date.



Forced bending is prohibited



Schematic diagram of curvature