

# 49XF/XS2B Installation guide

---

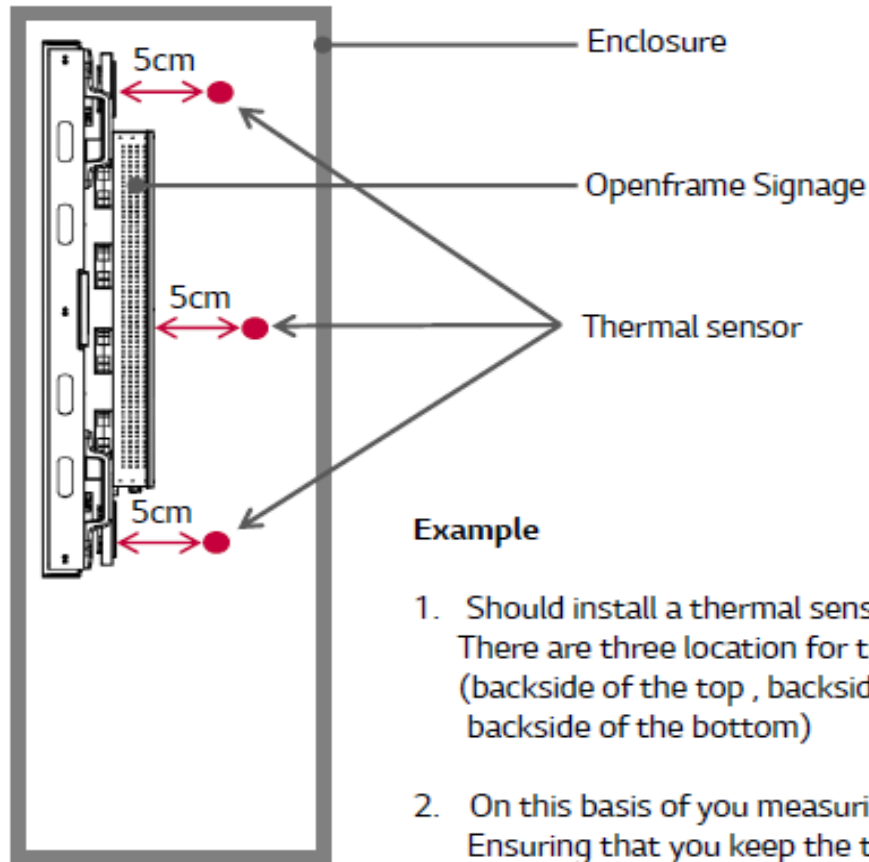
## Index

1. 49XF2B (Open frame)
2. 49XS2B (window facing)

# 1. 49XF2B(open frame) Installation guide

## 1-1. Keep temperature 0°C~50°C (without direct sunshine) 0°C~40°C (with direct sunshine)

When designing the enclosure, the temperature inside the enclosure must be maintained above degree(°C)



### Example

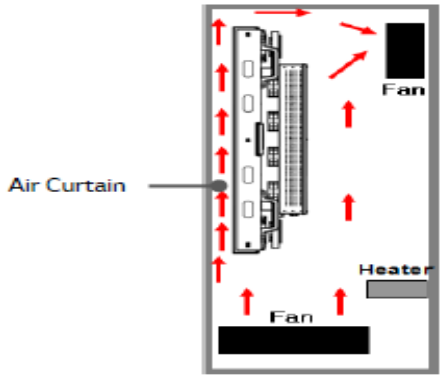
1. Should install a thermal sensor inside the enclosure.  
There are three location for thermal sensor.  
(backside of the top , backside of the middle,  
backside of the bottom)
2. On this basis of you measuring the temperature,  
Ensuring that you keep the temperature

# 1. 49XF2B(open frame) Installation guide

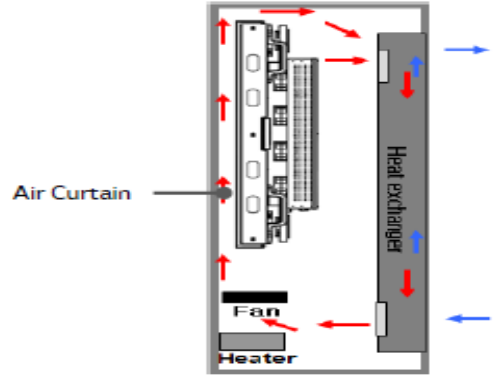
## 1-2. Consider using a cooling & heater solution (Mandatory)

- To maintain the temperature inside the enclosure, you should consider using a cooling and heater solution such as an air conditioner, heat exchanger, or combined cooler and heater depending on the external environment. (Please see below examples)
- You could also employ an air flow circulation system and air curtain\* between the front panel and the enclosure.
- Recommend to design the exterior of the enclosure to meet with the IP65 standard.
- Use a dust filter to prevent dust .(At air inlet and outlet )

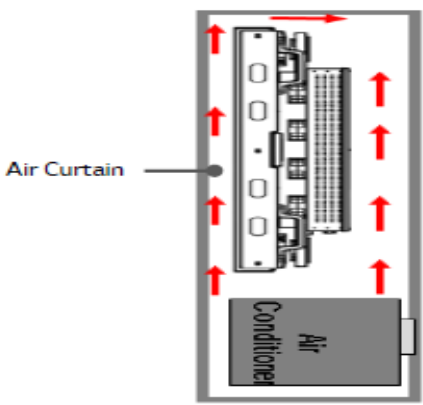
Example 1 : Enclosure (Just fans)



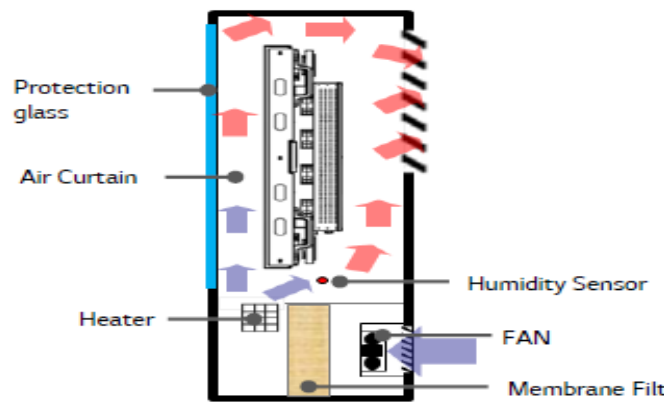
Example 2 : Enclosure (Heat exchanger)



Example 3 : Enclosure (Air conditioner)



Example 4 : Direct Air Cooling Solution

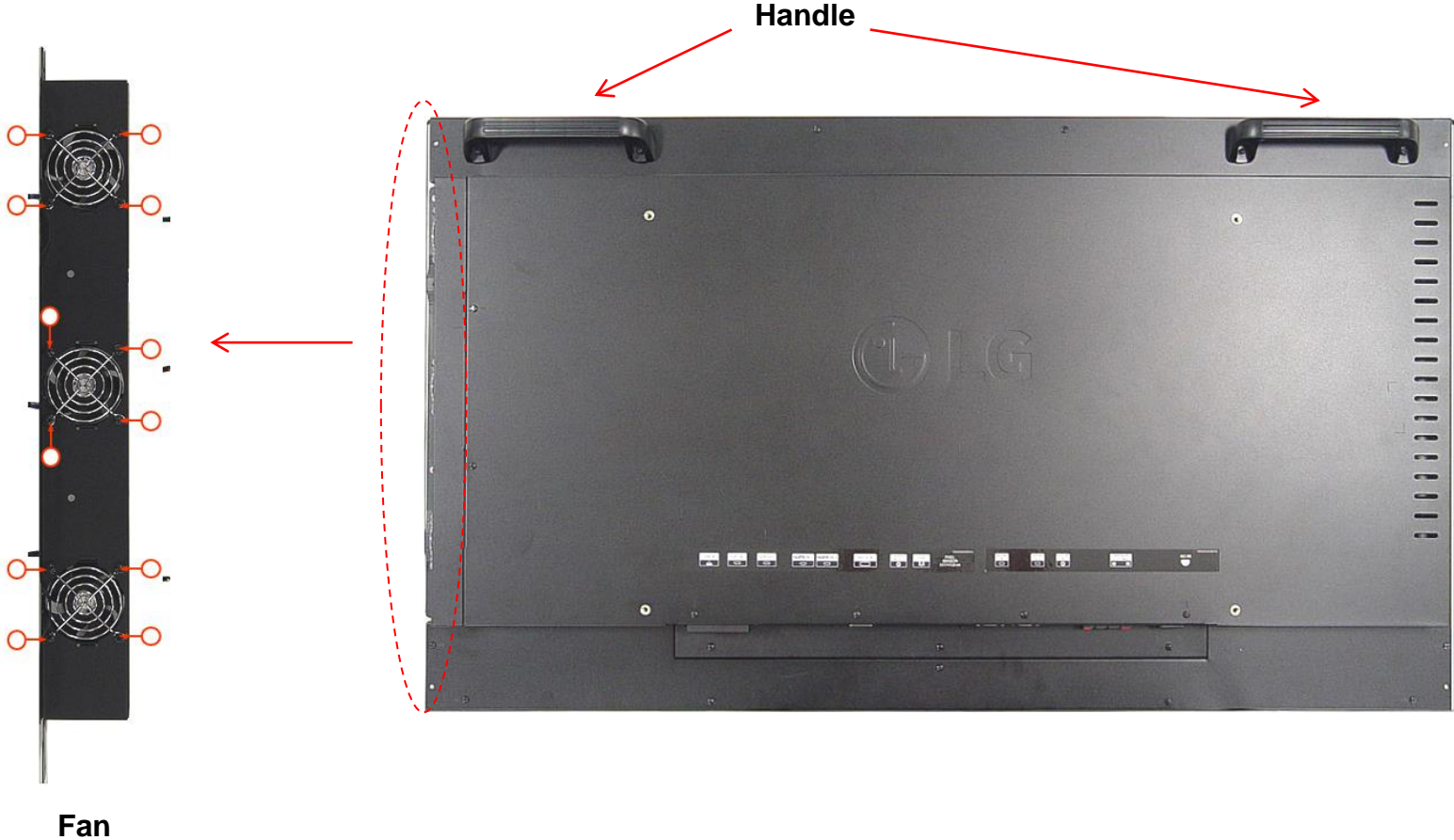


\*Air curtain :  
Air flow circulation system between the front panel and the enclosure.

- Filter should be used for filtering out bugs, dust and water.
- For preventing from rust of lead frame in circuit board, operates the Heater if relative humidity is high.

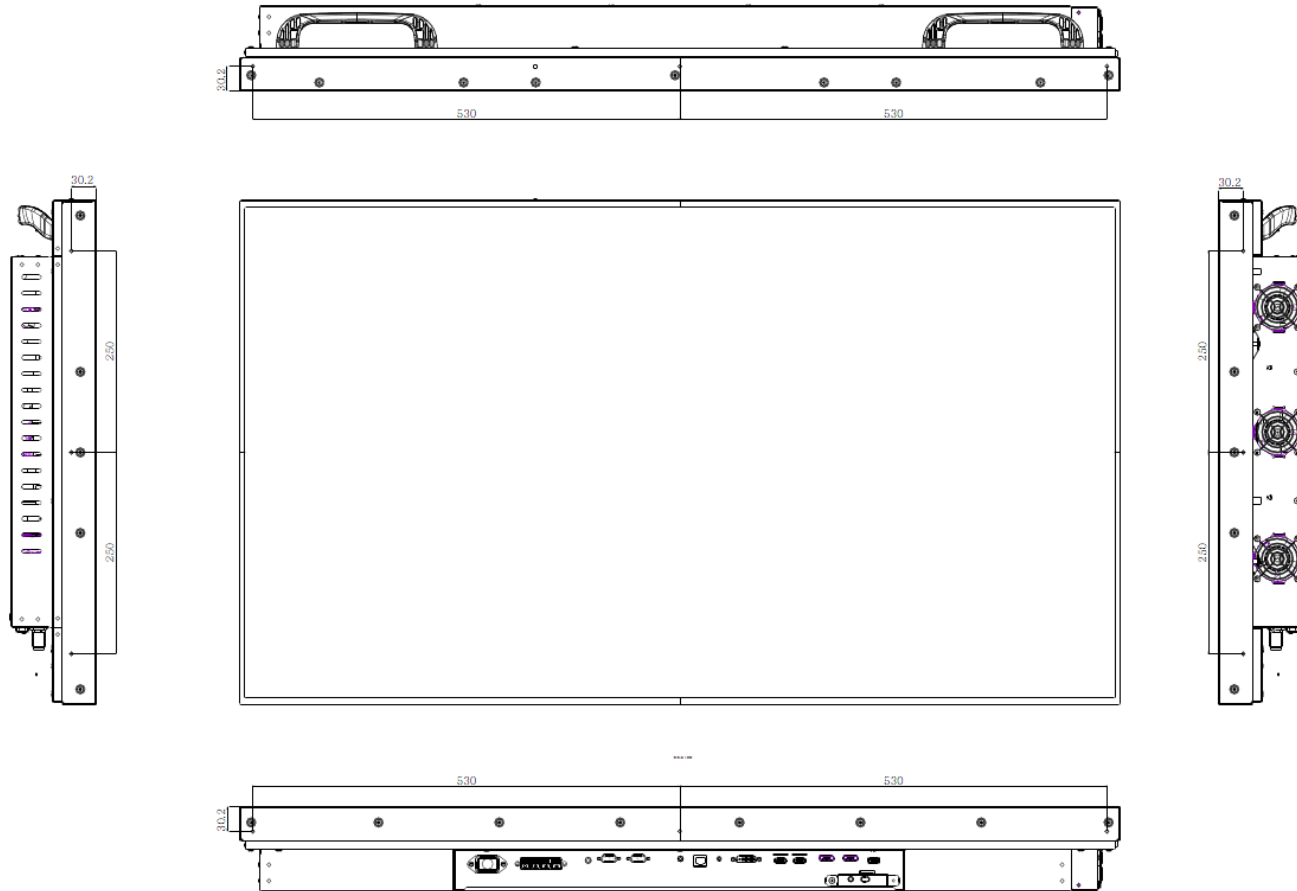
# 1. 49XF2B(open frame) Installation guide

1-3. Do not disassemble Handle, Fan bracket (Mandatory)



# 1. 49XF2B(open frame) Installation guide

## 1-4. Do not use a screw is longer than 7.0mm (Mandatory)

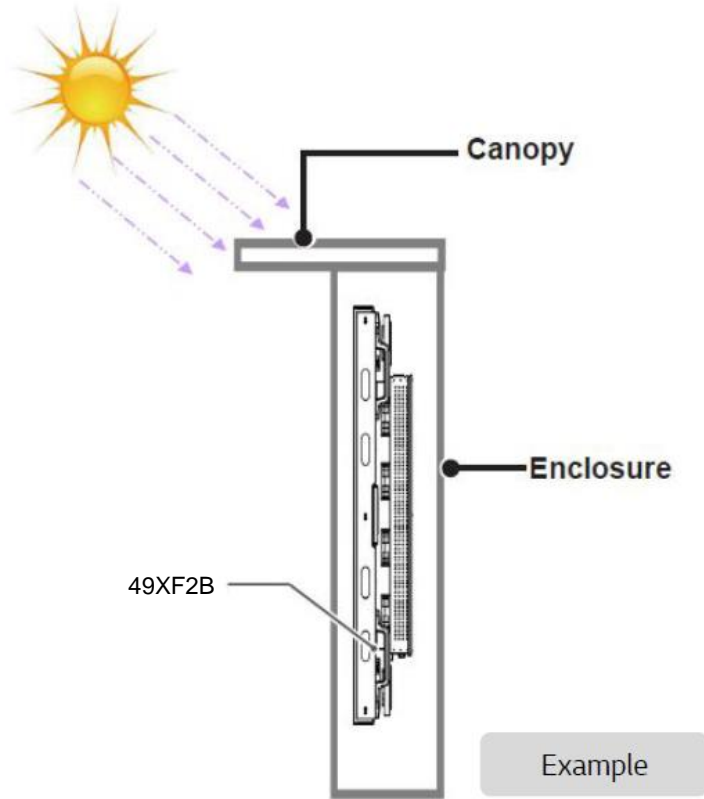


- You must use the side screw holes when mounting the panel.
- The side screw holes are M4.0 Tap, Torque 4 ~ 5Kgf.cm, pitch 0.7mm
- The screw hole depth of module is 7.0mm (Max)
- If a screw is longer than 7.0mm, it may cause damage to the LCD module
- It is advisable to only use spring washer-type screws.

# 1. 49XF2B(open frame) Installation guide

## 1-5. Please install a cooling system when exposed to direct sun light (Mandatory)

- For Example-Using a canopy may prevent the enclosure temperature increasing due to direct sunlight.



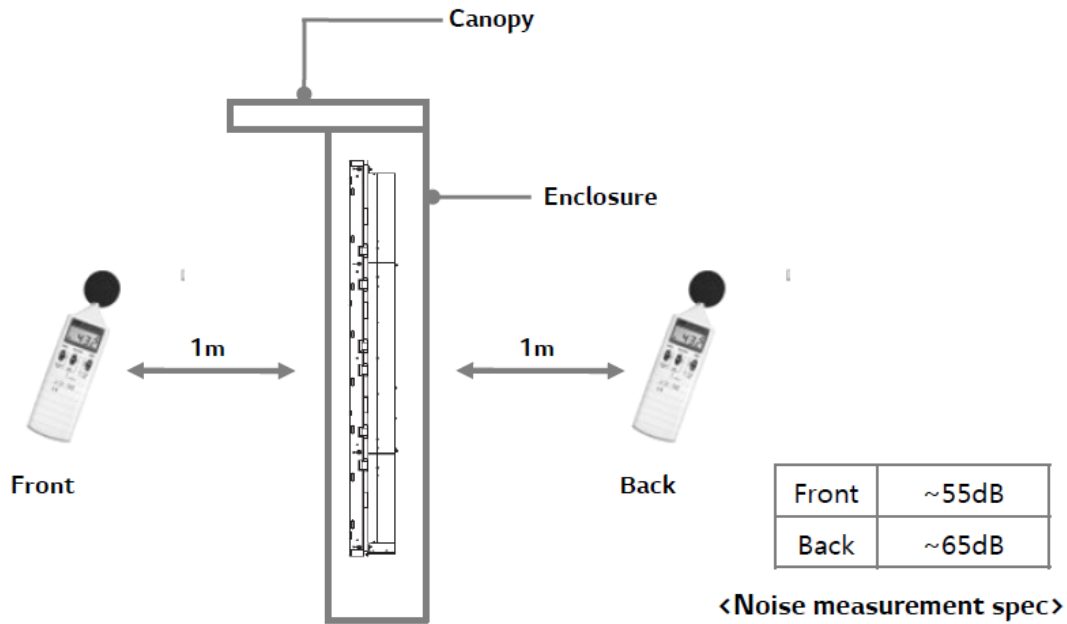
### ! NOTE

- To prevent sunlight, consider to attach a UV film on the glass

# 1. 49XF2B(open frame) Installation guide

## 1-6. How to measure fan noise when it is installed indoors

- Avoid installing the product in indoor environment. It can cause noise issue
- If you are possible to measure the noise level of this product in indoor environment, please do it using the below picture as guidance
- If measurement value meet the specification, it shows that the product operating correctly



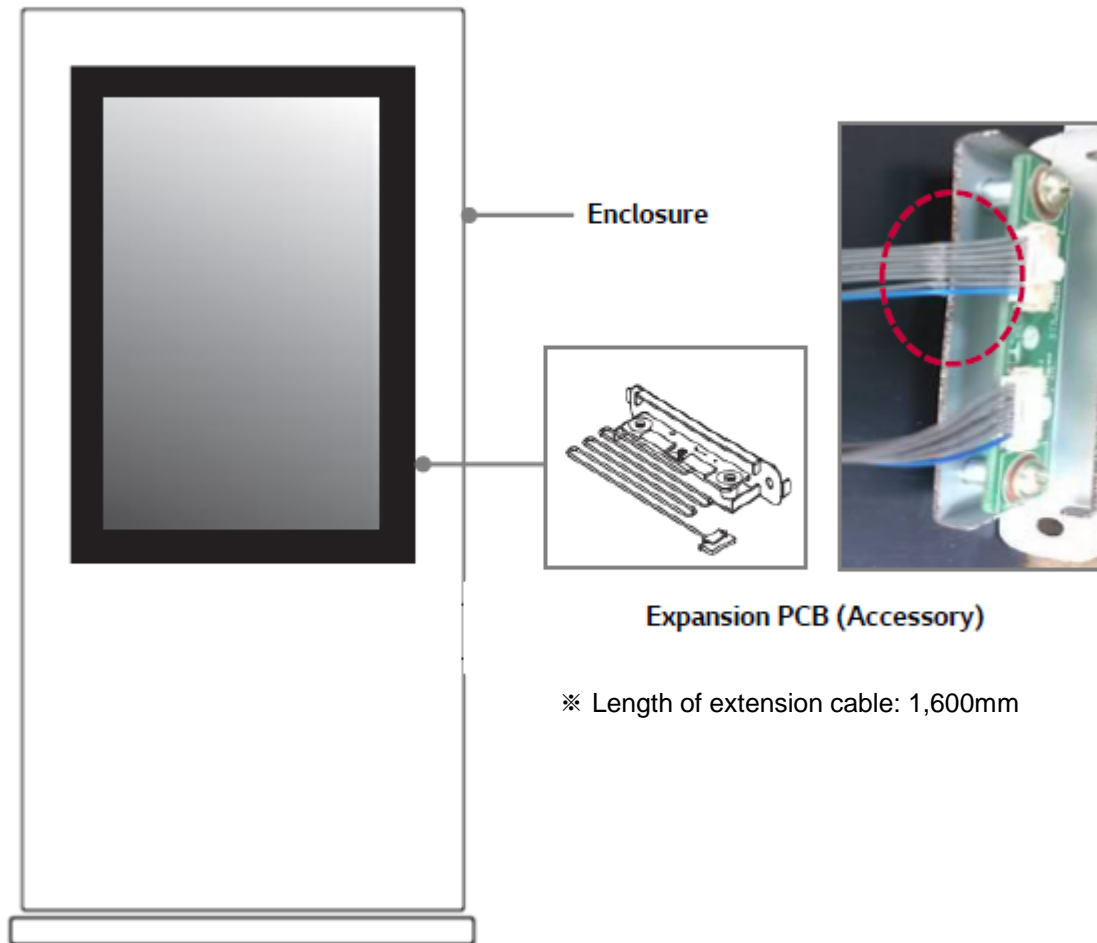
### ! NOTE

- During the measurement, please turn off the Air Cooler in the enclosure

# 1. 49XF2B(open frame) Installation guide

## 1-7. Be careful not to damage the cable when installing within an enclosure

- When designing the enclosure, please ensure that there is enough space in order to prevent the Expansion PCB cable being damaged and ensure that it is installed carefully

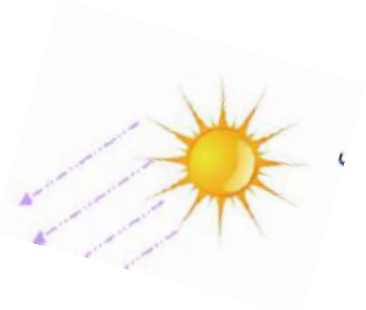
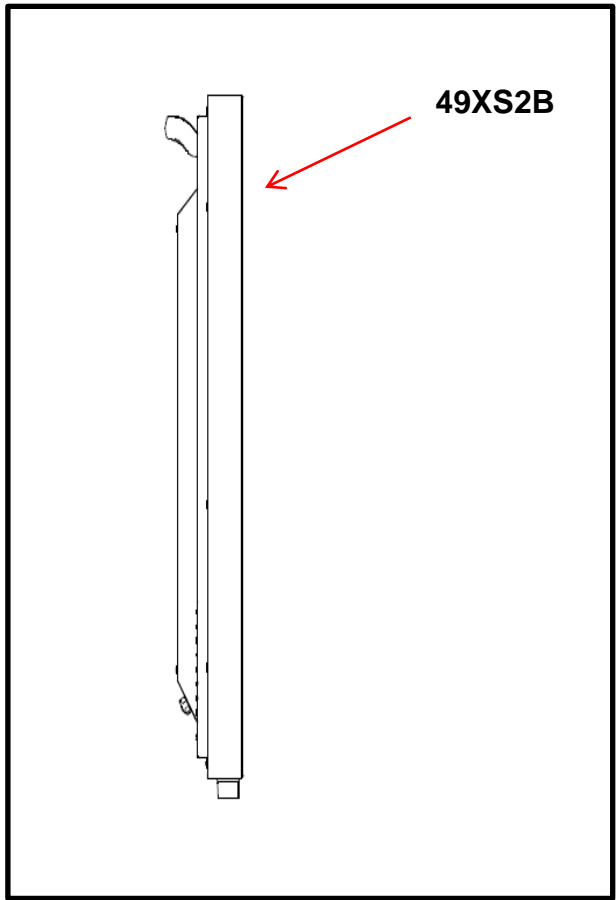




## 2. 49XS2B(Window facing) Installation guide

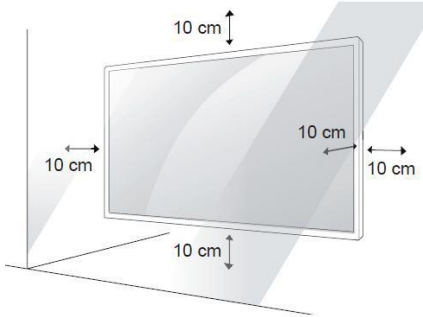
- 2-1. Keep temperature 0°C~45°C (without direct sunshine)  
0°C~35°C (with direct sunshine)

When designing the enclosure, the temperature inside the enclosure must be maintained above degree(°C)

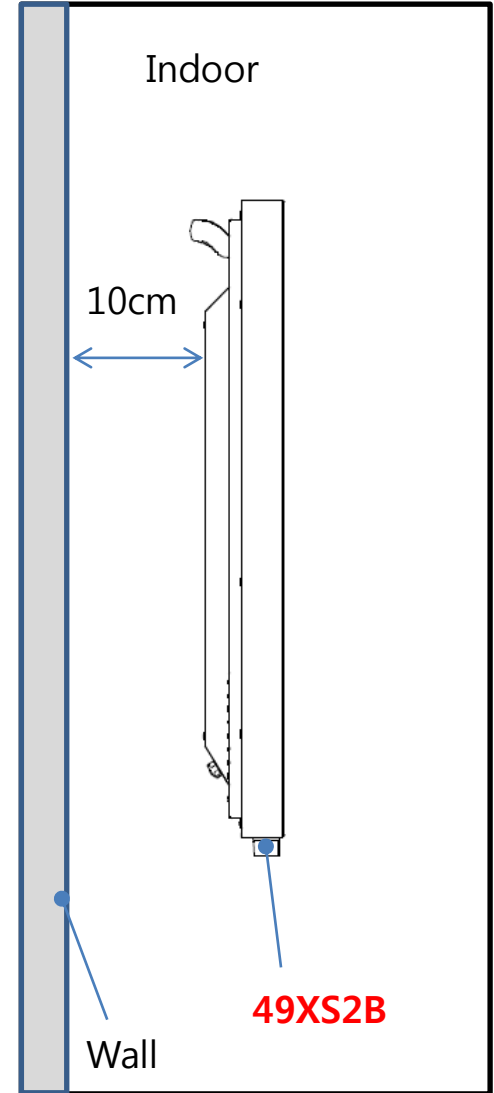
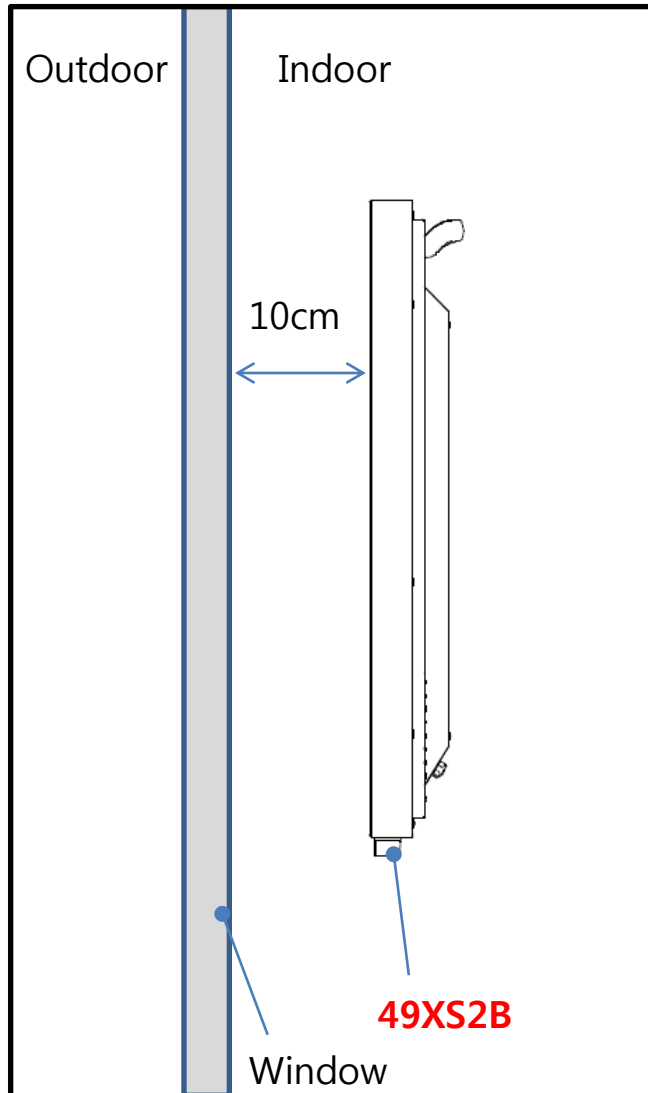


# 2. 49XS2B(Window facing) Installation guide

## 2-2. Window facing installation guide

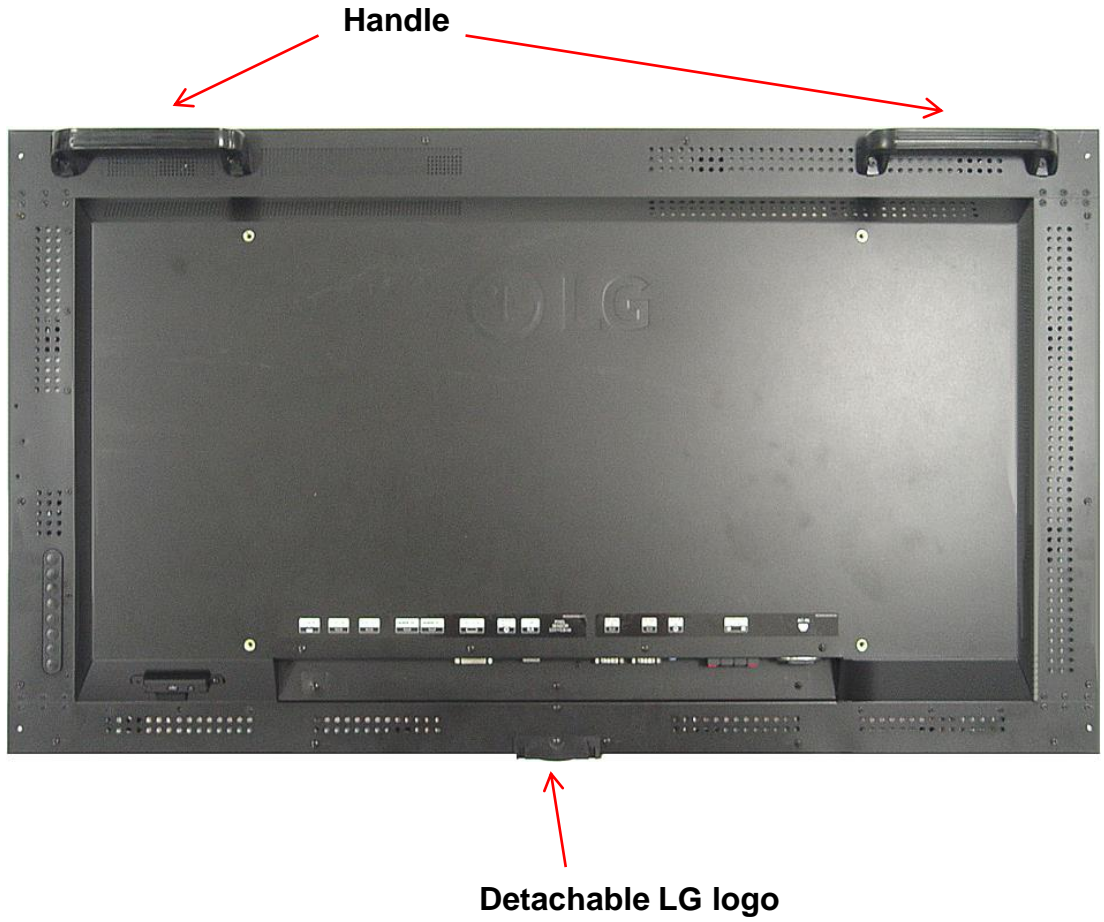


- You must have space over 10cm
- If possible, avoid direct sunshine.



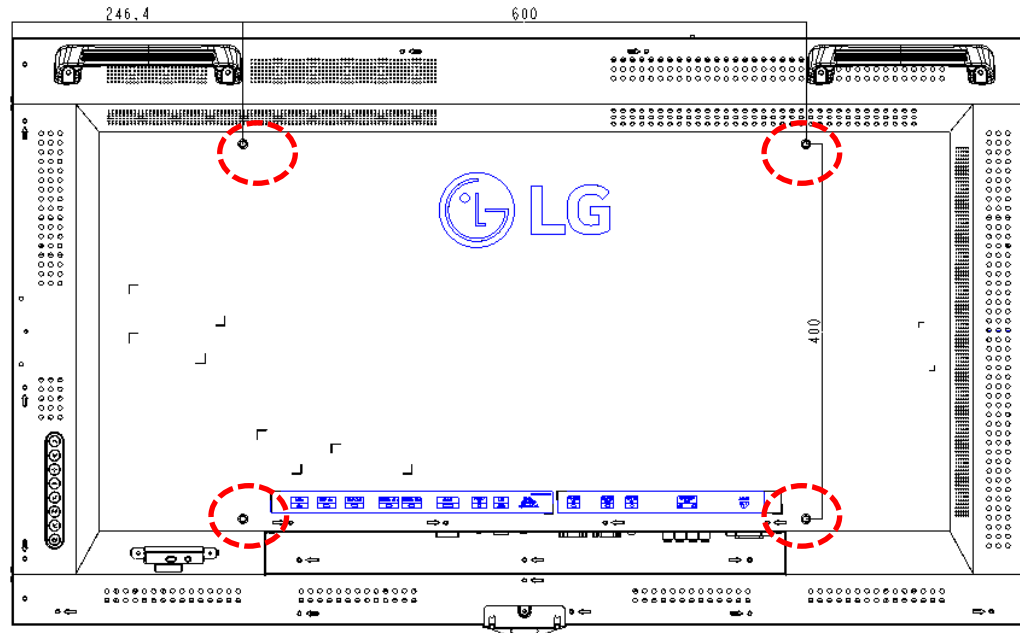
## 2. 49XS2B(Window facing) Installation guide

### 2-3. Do not disassemble Handle (Mandatory)



## 2. 49XS2B(Window facing) Installation guide

### 2- 4. Do not use a screw is longer than 30mm (Mandatory)



 Wall mount screw hole

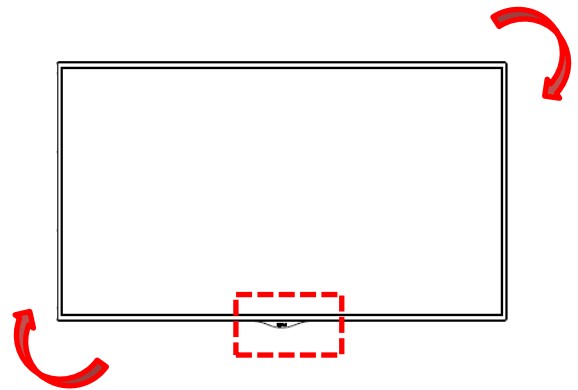


▪ Example : Spring washer type

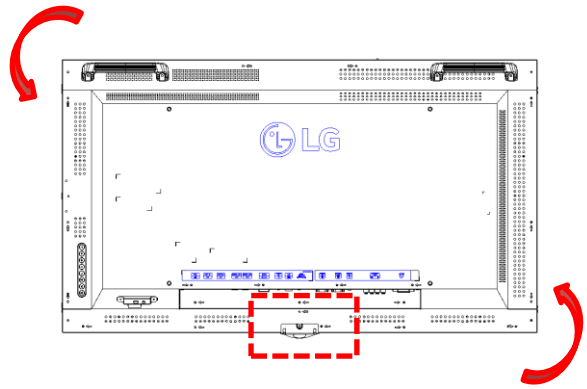
- You must use the side screw holes when mounting model.
- The Mounting screw holes are M6.0 Tap, Torque 10 ~ 12Kgf.cm, pitch 1.25mm
- The screw hole depth of module is 30mm (Max)
- If a screw is longer than 30mm, it may cause damage to the LCD module
- It is advisable to only use spring washer-type screws.
- When you do mounting, don't use a movable fixtures.

# 2. 49XS2B(Window facing) Installation guide

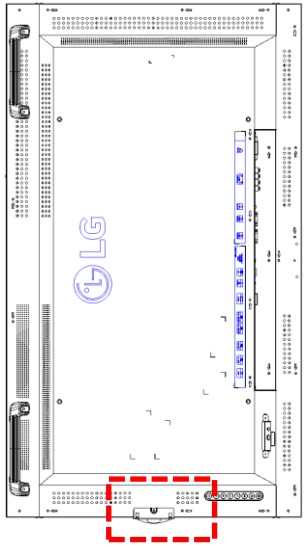
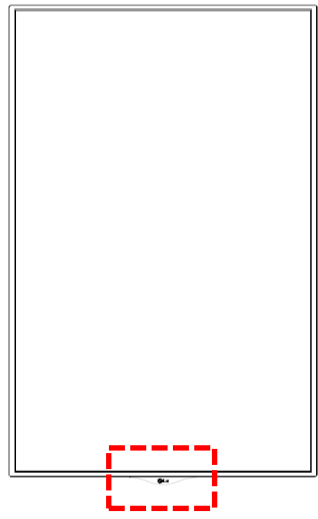
## 2- 5. Portrait



[Front view]



[Back view]



 Detachable LG logo