

# BIPV Facade Solar

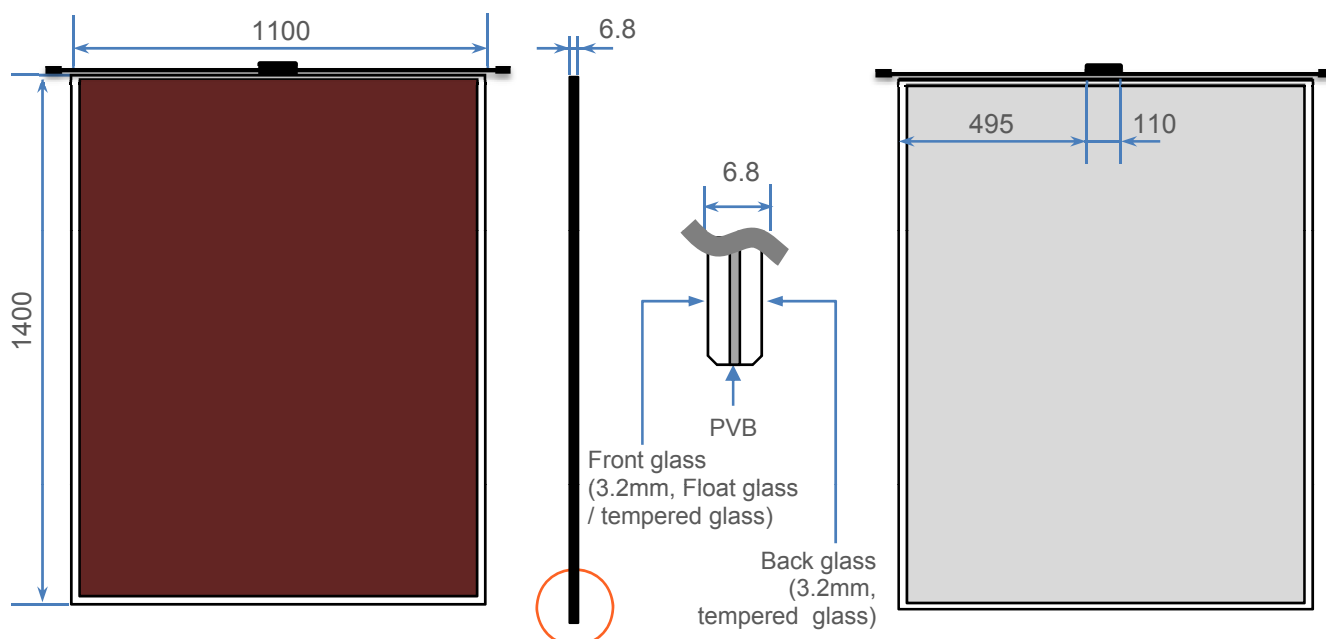


Photovoltaic glass (Solar Glass), is an architectonic glass that provides the building with the same properties as conventional glass, it is also a passive income generator that will provide a return on investment for 25 years plus.

Solar Glass substitute's conventional glass within the building envelope. Whether used as a curtain wall, a facade, ventilated facade or as glass windows it provides the same mechanical behavior as conventional glass.

The variations for Solar Glass include degrees of transparency and thickness and a range of colours. Applications include single, double or even triple glazed. The same as traditional glass. Solar Glass can be installed by regular commercial and industrial glaziers as the same principles apply for both traditional and Solar Glass

Customized product with different specification and structure are available.



## Mechanical Specifications

Junction Box position	Side
Dimension of Junction Box(L×W×T)	110×10×11.5 mm
IP rating of Junction Box	IP65
Connector	MC4 or MC3
Cable size	2.5 mm <sup>2</sup>

## Dimension and Weight

Dimension(L×W×T)	1,400×1,100×6.8 mm
Weight	25.5 Kg

## Physical Specifications

Transmittance	20%
---------------	-----

## Electrical Specifications(STC)

Maximum Power	P <sub>max</sub>	90 W
Maximum power voltage	V <sub>pm</sub>	78 V
Maximum power current	I <sub>pm</sub>	1.15 A
Open circuit voltage	V <sub>oc</sub>	100 V
Short circuit current	I <sub>sc</sub>	1.43 A

**STC:** Irradiance of 100mW/cm<sup>2</sup>, AM1.5 Spectrum, and cell temperature of 25°C (77°F).

**All electrical ratings bear with a tolerance of ±10% , or specified otherwise.**

## Temperature Coefficients

Open Circuit Voltage ( β )	-0.33 %/ °C
Short Circuit Current ( α )	0.09 %/ °C
Maximum Power ( γ )	-0.20 %/ °C

## Installation Specifications

Maximum System Voltage	600 V
Module operating temperature	- 40°C to +85°C