CSE

CORPUS

Experience Meets Vision

SMART SOLUTION

Building Integrated Photovoltaics (BIPV)

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Introduction

A Building Integrated Photovoltaics (BIPV) system consists of integrating photovoltaics modules into the building envelope, such as the roof or the facade. By simultaneously serving as building envelope material and power generator, BIPV systems can provide savings in materials and electricity costs, reduce use of fossil fuels and emission of ozone depleting gases, and add architectural interest to the building.

BIPV glass solar modules are valued for their properties of longevity and resistance to environmental conditions. Therefore glass/glass module technology is recognized and are most commonly used solution in the BIPV market. Not only are these modules a great construction material for buildings, but having energy generation in mind, allows such building to stand out in emerging smart city environment. BIPV glass panel customization options from CORPUS provides architects with freedom of choice to design and implement visually unique energy efficient solar facades.

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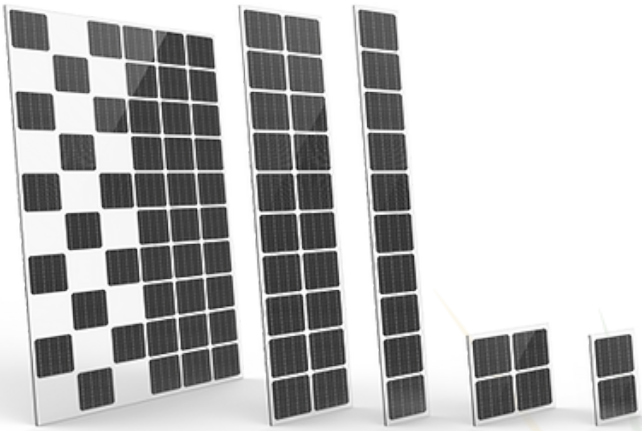
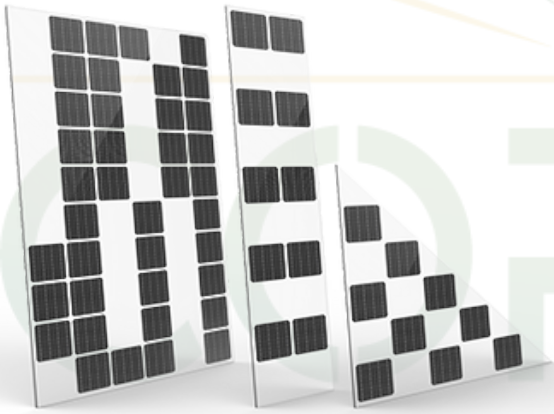
Solar Modules Size Options



Corpus Enerji Solar Üretim A.Ş. manufacturing capabilities allow flexible variations in module sizes, cell arrangement and module shape. Here we provide most commonly used solar panel options, though other sizes,transparency, cell arrangement, JB and other options are possible on demand.

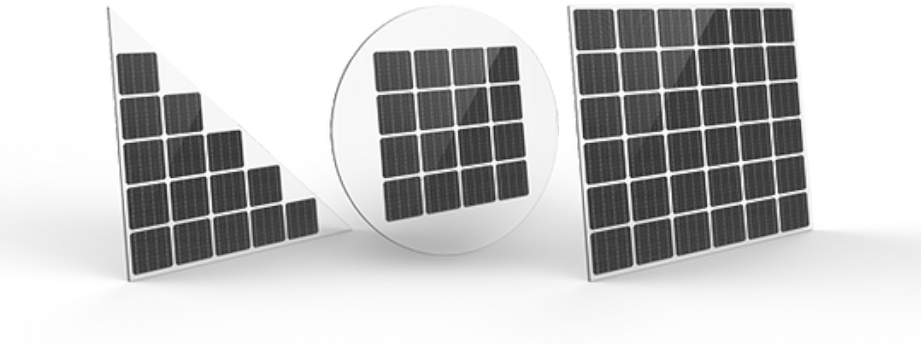
Solar Modules Shape Options



Full black modules are used when complete fusion with an object and invisibility is required.

Cell Arrangement Variations

In our produced solar panels cells can be arranged customly on your demand.



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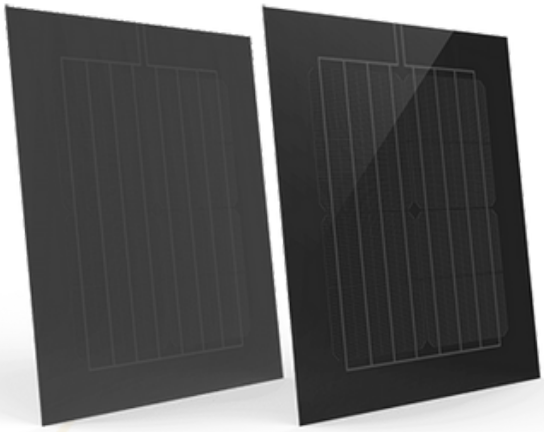
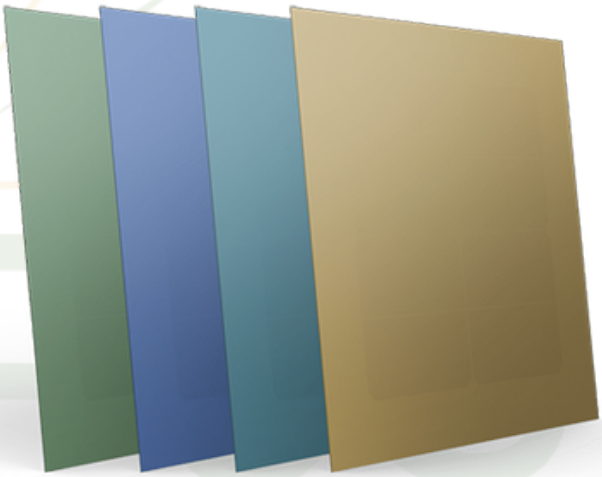
Full Black Modules

Visually attractive modules are often used when complete fusion and invisibility are required. Although this technology has lower light transmission and energy generation properties compared to transparent glass modules.



Terracotta Tile Modules

Terracotta glass modules are often used for BIPV projects to achieve exceptional solar facade design or as a roof solution, in most cases acting as a terra cotta style roof tile. In some cases this solution is chosen for projects that focuses on architectural heritage or old town areas where strong limitations are present.



Colored Glass Modules

Installation advantages of using such colored glass option is that solar cells are almost invisible.

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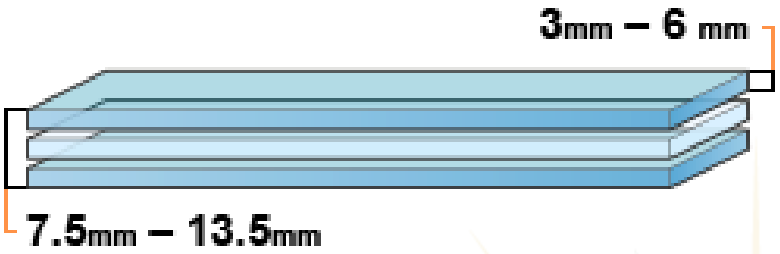
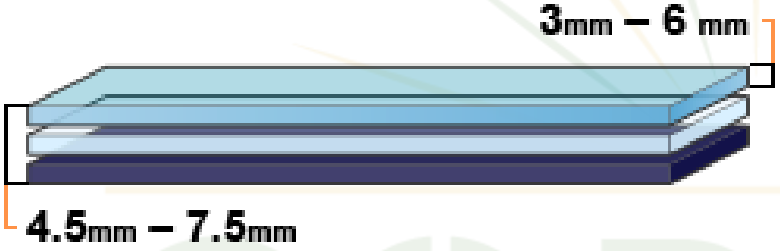


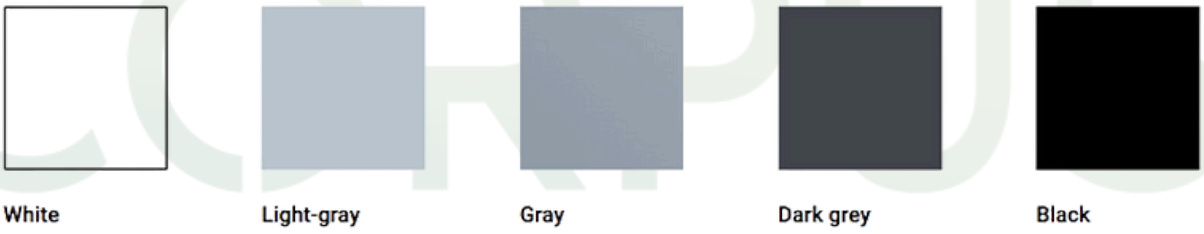
Glass / Glass

Glass thickness: 3mm – 6mm
Module thickness: 7.5mm – 13.5mm



Glass / Backsheet

Glass thickness: 3mm – 6mm
Module thickness: 4.5mm – 7.5mm



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Heat preservation and insulation

Convenient installation

Same life cycle as buildings

Nano film colorization technology, bright and long lasting

Construction grade material

Excellent fireproof and waterproof performance

Beautiful and power generation

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