



MITREX

בניית פנלים סולאריים מתוך תאריכי מתח

073-7969732 יוניקס אנרגיה

**DESIGNING WITH
MITREX BIPV**

MITREX BIPV MODULES
SIZES

DESIGNING WITH MITREX BIPV MODULES

Building Integrated Photovoltaics (BIPV) Mitrex modules represent a pioneering advancement in solar energy technology, seamlessly integrating photovoltaic cells into building materials to harness sunlight and generate electricity. One crucial aspect of Mitrex BIPV modules is their diverse range of sizes, which offers architects, developers, and designers the flexibility to incorporate solar power generation into various architectural designs and structures. These modules come in an array of dimensions, allowing for customized installations that align with aesthetic preferences while also contributing to sustainable energy solutions.

1. STANDARD SOLAR MODULE SIZES

For production and energy optimization purposes, Mitrex BIPV modules are handled in 11 standard sizes. Each standard size maximizes the active area (area with solar cells) as much as possible so we guarantee that each module is a high-efficiency product.



STANDARD SIZES OPTION 1



STANDARD SIZES OPTION 2



2. OPTIMIZED STANDARD MODULES SIZE FOR CLADISHIELD INSTALLATION SYSTEM

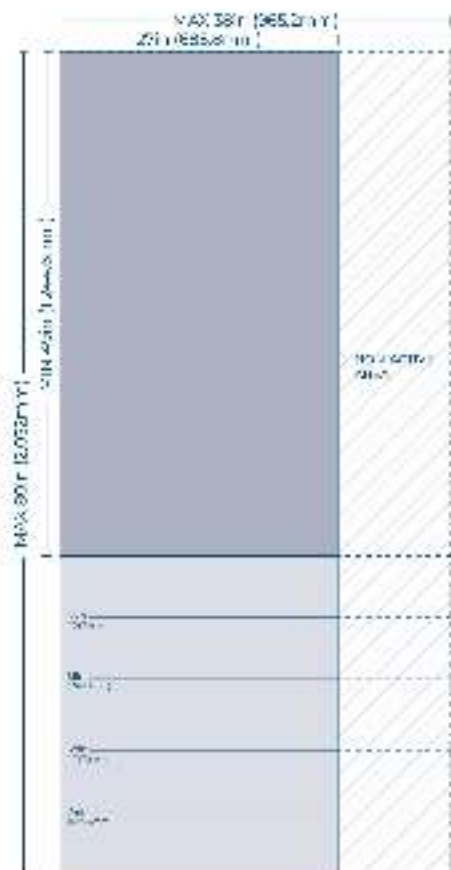
Cladishield system allows the installation of single modules on top of the wall. For this system, the width size is 37 in (939 mm) or 39 in (990 mm), and the length size is 49 in (1244 mm) to 60 in (1525 mm).

Depending on the building power layout, some modules will be bigger or smaller than the standard Mitrex 2 PV module sizes (presented in section 1). In this case, those modules will have the same active area (area with solar cells) as it's the closest standard size and the remaining area will be considered as inactive (Area without solar cells).

☑ BEST RECOMMENDATION

If you are designing the panel layout of the building under Mitrex Cladishield installation system, we strongly recommend to do it based on Mitrex standard sizes so you guarantee that each module of your host is producing the maximum amount of energy.

CLADISHIELD INSTALLATION SYSTEM



3. CUSTOM SINGLE MODULE SIZE FOR CLADIFAB AND CLADICAST INSTALLATION SYSTEM

Cladifab and Cladicast Wall systems allow the installation of mega modules into the building facade from the interior of the building, reducing the storage space required and speeding up the installation of the material. For this system, the maximum width size is 80 in (2032 mm) and the maximum length size is 105 in (2675 mm).

Depending on the building plane layout, some modules will be bigger or smaller than the standard Mitrex 3 PV module sizes presented in section number 1. In this case, these modules will have the same active area (area with solar cell(s)) as the closest standard size and the remaining area will be considered as inactive Area without solar cell(s).

MAXIMUM CUSTOM SINGLE PIECE SIZE



CLADICAST WALL INSTALLATION SYSTEM



CLADIFAB WALL INSTALLATION SYSTEM



4. CUSTOM PRE-ASSEMBLED MULTIPIECE MODULE SIZE FOR CLADIFAB AND CLADICAST INSTALLATION SYSTEM

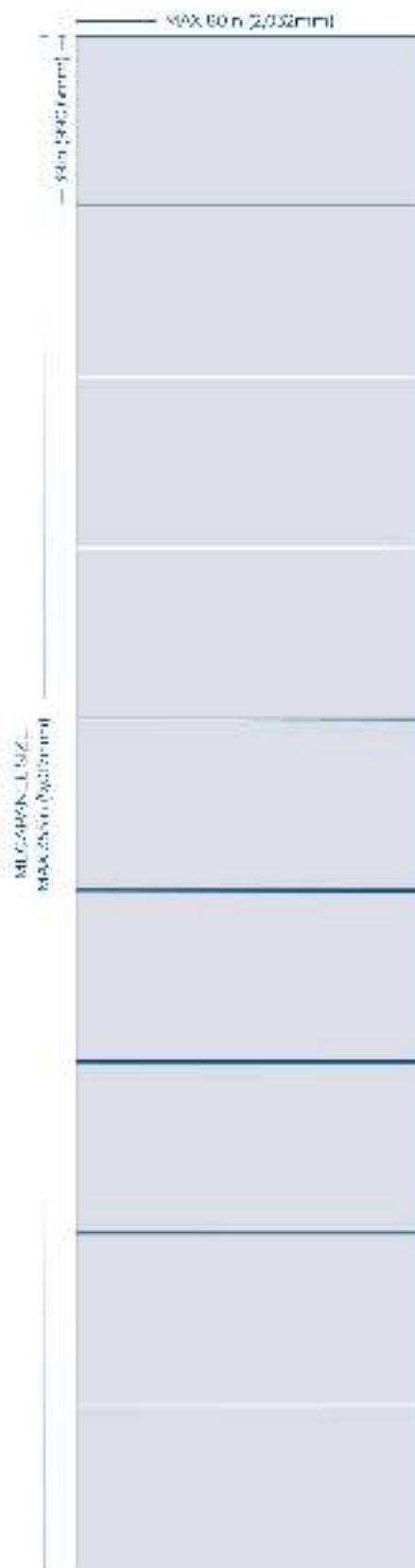
Cladifab and Cladicast Wall systems allow the installation of megamodules into the building facade from the interior of the building, reducing the storage space required and speeding up the installation of the material.

Pre-assembled modules allow having bigger pieces of solar cladding with pre-assembled smaller standard pieces done in our manufacturing prior the shipping to the job site. The pre-assembled modules maximum width size is 60 in (2,032 mm), and the maximum length size is 360 in (9,142 mm).

CLADICAST WALL INSTALLATION SYSTEM



MAXIMUM CUSTOM PRE-ASSEMBLED PIECE SIZE
(A total 9 standard modules can be fit in this megapanel)



5. ACTIVE AND INACTIVE AREAS IN A REAL SAMPLE

The visual appearance of both active and inactive areas in a solar module exhibits the same look, such that it can be challenging to discern any notable distinctions between the two areas.

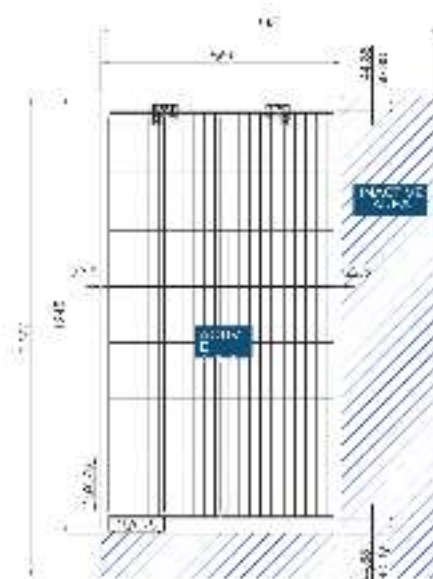


6. APPENDIX

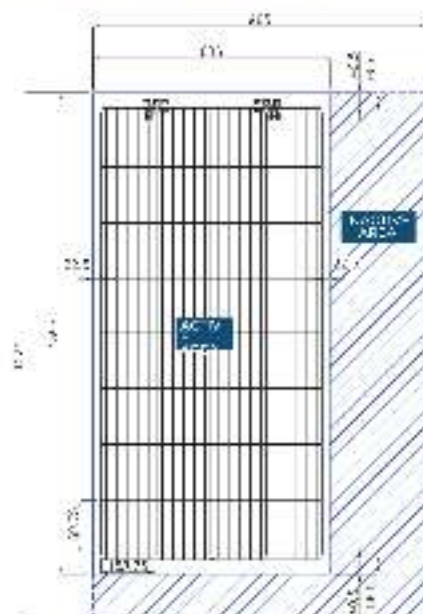
Mitrex HRPV modules are available in a range of 14 standard sizes, that maximize the module surface to generate energy, providing a practical and adaptable solution for seamlessly integrating solar power into buildings.

OPTION 1

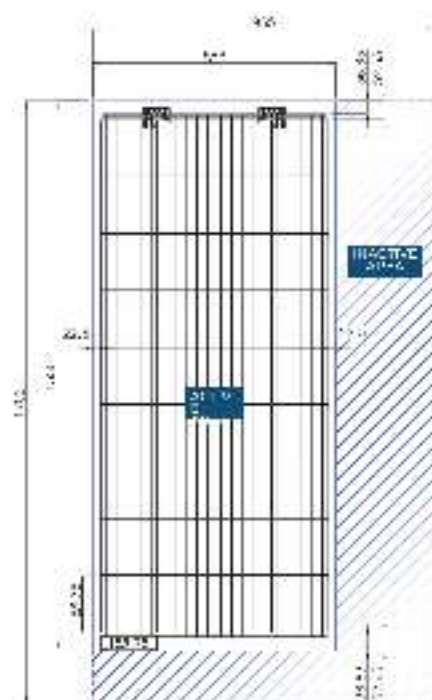
SIZE: 27x49in (686x1,246mm) to 38x54in (965x1,372mm)
CELL ARRANGEMENT: 28 Cells (4 x 7)



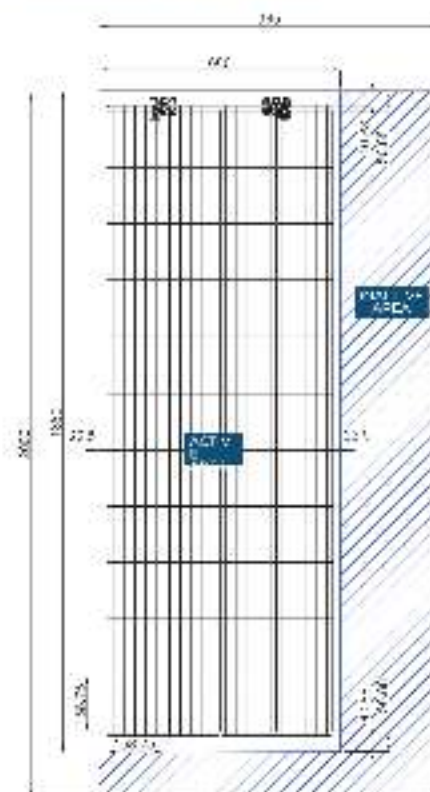
SIZE: 27x55in (686x1,397mm) to 38x60 (965x1,524mm)
CELL ARRANGEMENT: 32 Cells (4 x 8)



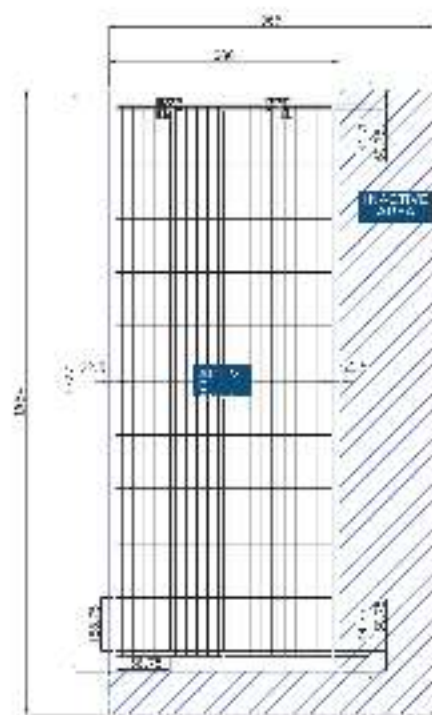
SIZE: 27x61in (686x1,550mm) to 38x67in (965x1,702mm)
CELL ARRANGEMENT: 36 Cells (4 x 9)



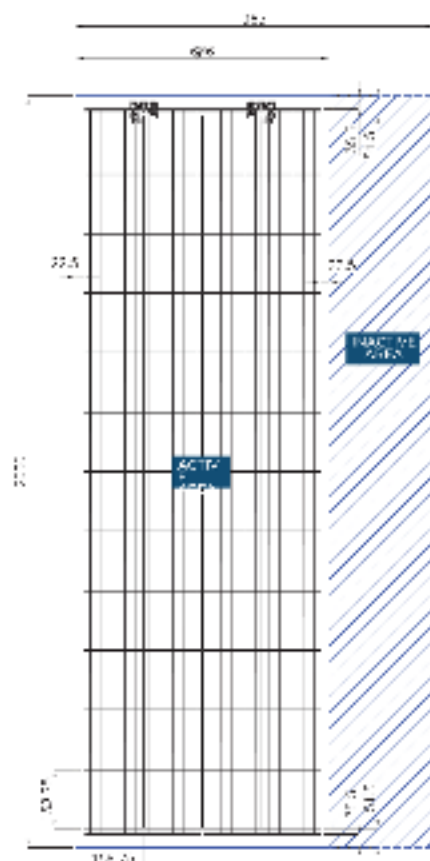
SIZE: 27x74in (686x1,880mm) to 38x79in (965x2,006mm)
CELL ARRANGEMENT: 44 Cells (4 x 11)



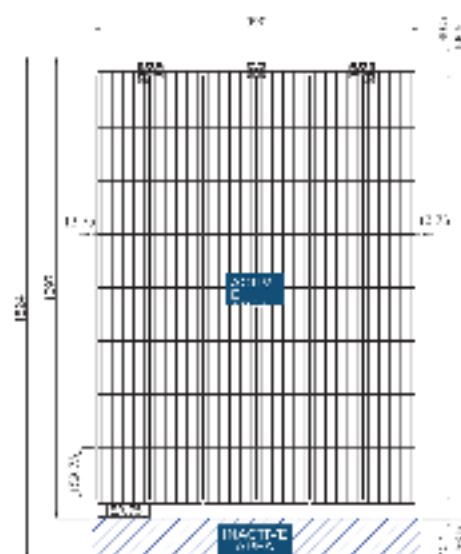
SIZE: 27x66in (686x1,727mm) to 38x73in (965x1,854mm)
CELL ARRANGEMENT: 40 Cells (4 x 10)



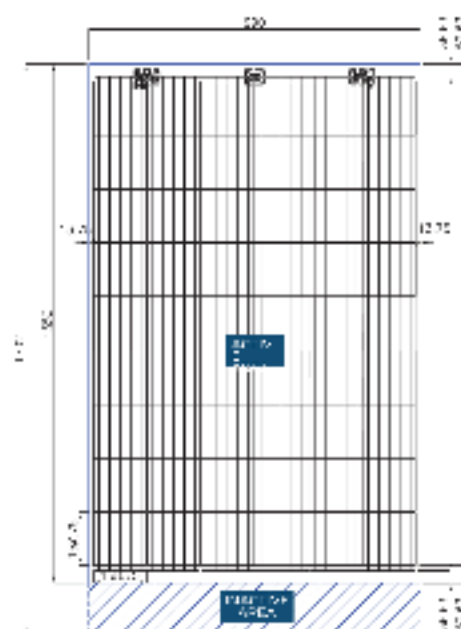
SIZE: 27x80in (686x2,030mm) to 38x80in (965x2,030mm)
CELL ARRANGEMENT: 48 Cells (4 x 12)



SIZE: 39x55in (990x1,397mm) to 39x60in (990x1,524)
CELL ARRANGEMENT: 48 Cells (6 x 8)

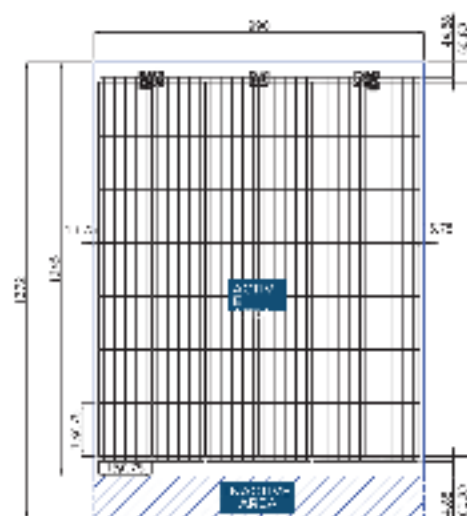


SIZE: 39x61in (990x1,550mm) to 39x67in (990x1,702mm)
CELL ARRANGEMENT: 54 Cells (6 x 9)

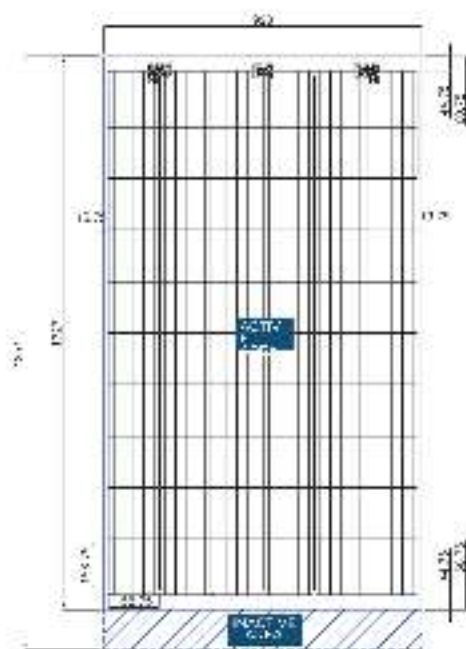


OPTION 2

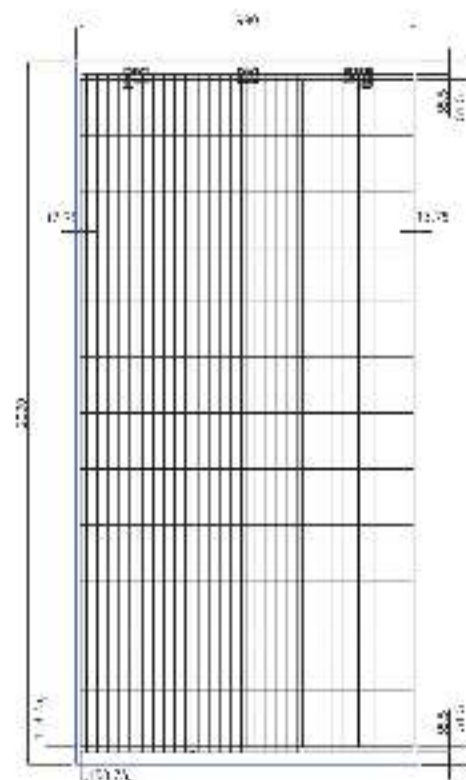
SIZE: 39x49in (990x1,245mm) to 39x54in (990x1,372)
CELL ARRANGEMENT: 42 Cells (6 x 7)



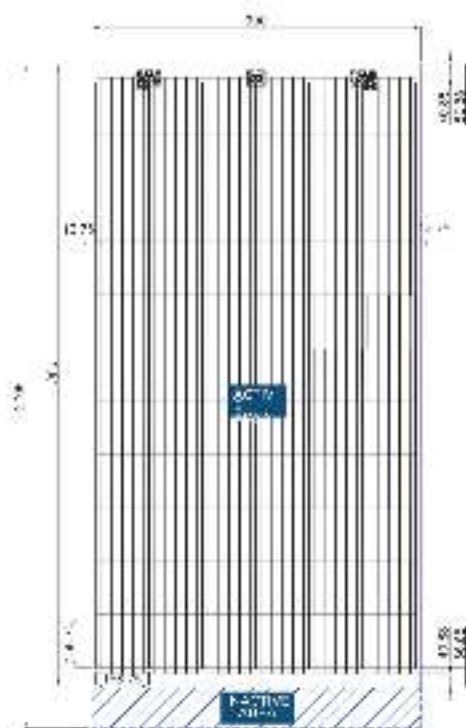
SIZE: 39x68in (990x1,727mm) to 39x73in (990x1,854mm)
 (FET) APPLICABLE FET/FET: 60 Cells (6 x 10)



SIZE: 39x80in (990x2,030mm)
 (FET) APPLICABLE FET/FET: 66 Cells (6 x 12)



SIZE: 39x74in (990x1,880mm) to 39x79in (990x2,006mm)
 (FET) APPLICABLE FET/FET: 66 Cells (6 x 11)





LEARN MORE:

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