

Designing With Mitrex BIPV: Mitrex BIPV Module Sizes



Designing With Mitrex BIPV Modules

For BIPV, the possibilities are as limitless as the sun's energy. Our BIPV modules don't just come in one size fits all; they come in a spectrum of sizes and configurations. Architects, developers, and designers, you now have the power to craft solar solutions that blend seamlessly with your architectural masterpieces. From vibrant shades to varied shapes, and intricate corner details, your creativity knows no bounds.

When designing with ${\sf BIPV},$ it is important to optimize the panel size so that you have more active ${\sf BIPV}$ panels.

1. Standard Module Sizes

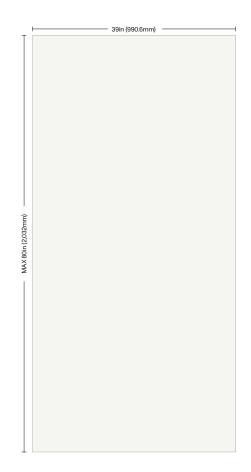
For production and energy optimization purposes, Mitrex BIPV modules are handled in 14 standard sizes. Each standard size maximizes the active area (area with solar cells) as much as possible so we guarantee that each module is a high-efficiency product.

• Standard Size Option 1

27in (685.8mm)

MAX 80in (2,032mm)

• Standard Size 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 27 in (686 mm) or 39 in (990 mm), and the length size is 49 in (1,244mm) to 80 in (2,032mm).

Depending on the building panel layout, some modules will be bigger or smaller than the standard Mitrex BIPV 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).

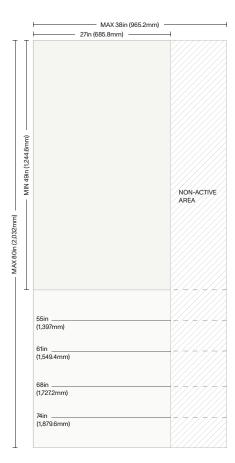
✓ Mitrex Recommendation:

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 wall is producing the maximum amount of energy.



Cladishield Installation System

• Standard Size Variation 1



74in

(1,879.6mm)

Note: For custom sizes see page 4

• Standard Size Variation 2

39in (990.6mm)

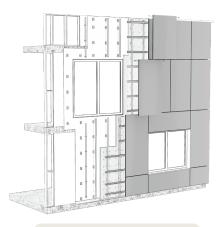
3. Custom Single Module Size For Cladishield, Claditized And Cladifab Installation System

Cladishield, Cladifab and Claditized 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 these systems, the maximum width size is 80 in (2,032 mm), and the maximum length size is 125in (3,175mm).

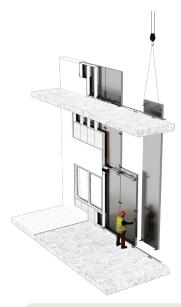
Depending on the building panel layout, some modules will be bigger or smaller than the standard Mitrex BIPV module sizes (presented in section number 1). In this case, those modules will have the same active area (area with solar cells) as it's closest standard size and the remaining area will be considered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

Maximum Custom Single Piece Size





Cladishield Installation System



Claditized Installation System



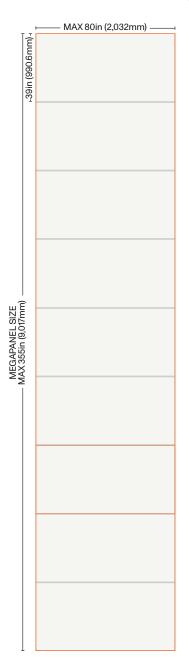
Cladifab Installation System

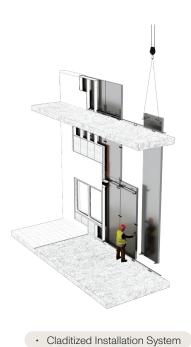
4. Custom Pre-Assembled Multipiece Module Size For Claditized And Cladifab Installation System

Cladifab and Claditized 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.

Pre-assembled modules allow for bigger pieces of solar cladding with pre-assembled smaller standard pieces done in our manufacturing plant prior to the shipping to the job site. The pre-assembled modules maximum width size is 80 in (2,032 mm), and the maximum length size is 355in (9,017mm).

• Maximum Custom Pre-Assembled Piece Sice (A total of 9 standard modules can be fit in this megapanel)







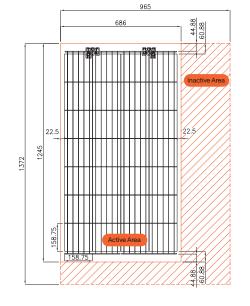
Cladifab Installation System

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.

Standard Size Option 1

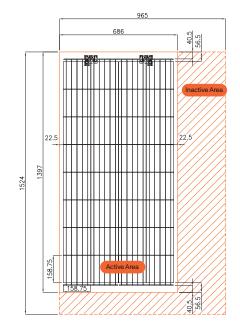
Size: 27x49in (686x1,245mm) to 38×54in (965×1,372mm) Cell Arrangement: 28 Cells (4 x 7)



6. Appendix

Mitrex BIPV 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.

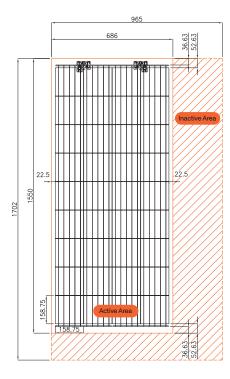
Size: 27x55in (686x1,397mm) to 38×60 (965×1,524mm) Cell Arrangement: 32 Cells (4 x 8)



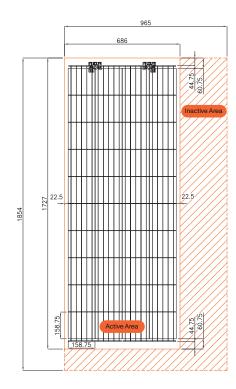




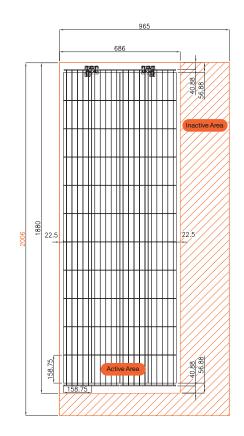
Size: 27x61in (686x1,550mm) to 38×67in (965×1,702mm) Cell Arrangement: 36 Cells (4 \times 9)



Size: 27x68in (686x1,727mm) to 38×73in (965×1,854mm) Cell Arrangement: 40 Cells (4 x 10)



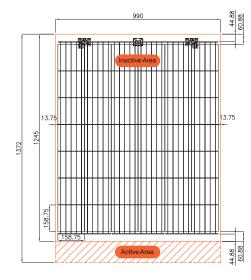
Size: 27x74in (686x1,880mm) to 38×79in (965×2,006mm) Cell Arrangement: 44 Cells (4 x 11)



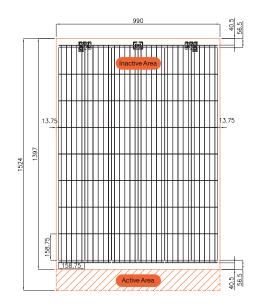
Size: 27x80in (686x2,030mm) to 38×80(965×2,030mm) Cell Arrangement: 48 Cells (4 x 12)

• Standard Size Option 2

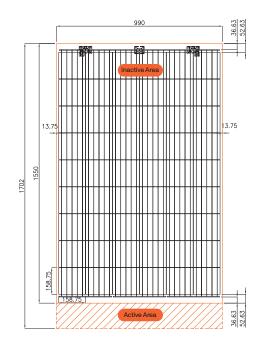
Size: 39x49in (990x1,245mm) to 39×54in (990×1,372mm) Cell Arrangement: 42 Cells (6 x 7)



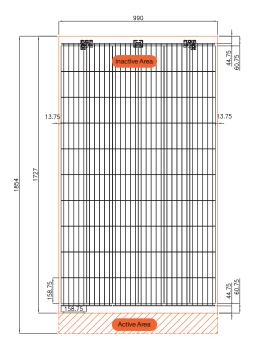
Size: 39×55in (990×1,397mm) to 39×60in (990×1,524mm) Cell Arrangement: 48 Cells (6 × 8)



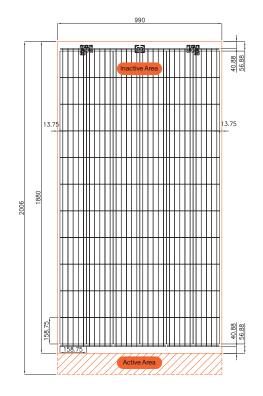
Size: 39×61in (990×1,550mm) to 39×67in (990×1,702mm) Cell Arrangement: 54 Cells (6 × 9)



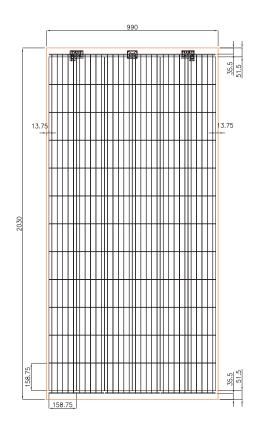
Size: 39×68in (990×1,727mm) to 39×73in (990×1,854mm) Cell Arrangement: 60 Cells (6 × 10)



Size: 39×74in (990×1,880mm) to 39×79in (990×2,006mm) Cell Arrangement: 66 Cells (6 × 11)



Size: **39×80in (990×2,030mm)** Cell Arrangement: **66 Cells (6 × 12)**



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