

SOLAR CLADDING



The World's Largest BIPV
Manufacturer

Mitrex BIPV uses the power of the sun to produce clean, sustainable energy. Our systems can be integrated into any building design while meeting all aesthetic needs. The products are backed by an aluminum honeycomb sandwiched between layers of solid aluminum sheets, making it both lightweight and durable.

CERTIFIED
IEC
61730

CERTIFIED
IEC
61215

UL
61730

UL
61215

SF
61730

SF
61215



An **energy-efficient solution** to new and existing facades.



Transform single-purpose building materials into **multi-purpose cladding**.



Provide **thermal resistance and exterior noise control**.



Lightweight, durable and highly resistant to moisture, staining and weathering.



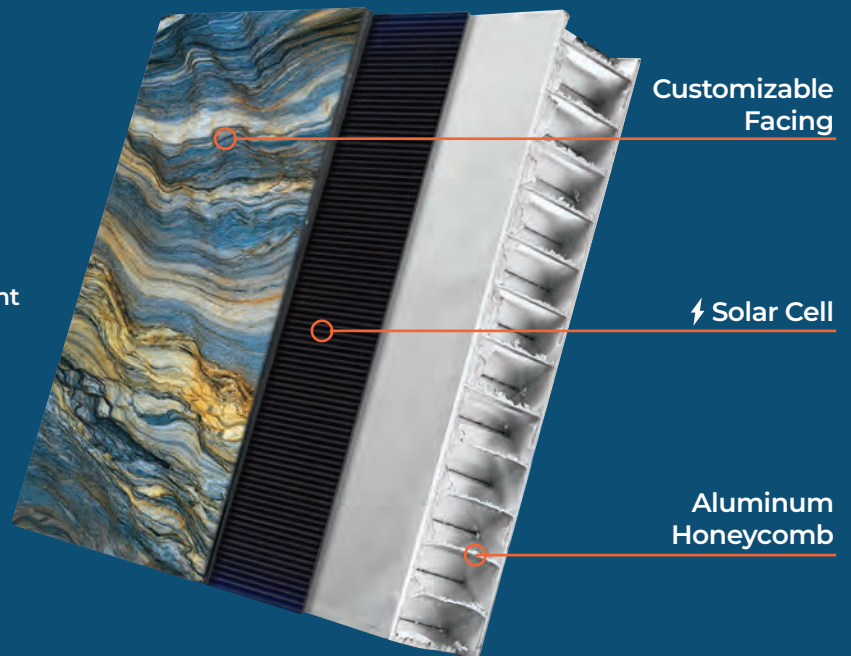
Code compliant, fire resistant and safety-tested.



Economical through our **revenue-sharing business model**.

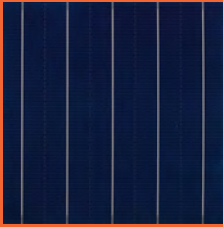


Produced in an **automated state-of-the-art manufacturing** facility.




Solar Technology

Monocrystalline Solar Cell




This type of solar technology is the highest performing, most scalable option on the market.

The monocrystalline solar cell is encapsulated by a front tempered glass layer.

 Engineered to allow light to penetrate and reach the photovoltaic layer.

 Colour coated to maintain design flexibility.

 Anti-reflective and anti-soiling coating to enhance efficiency and lower maintenance.

Design Complete Design Flexibility

Mitrex offers architects the control and flexibility to design structures sustainably without compromising aesthetics.



+ Many More Options



Customizable pattern, texture and colour options to satisfy any architectural needs.



Reflective, semi-reflective or matte module depending on aesthetic requirements.

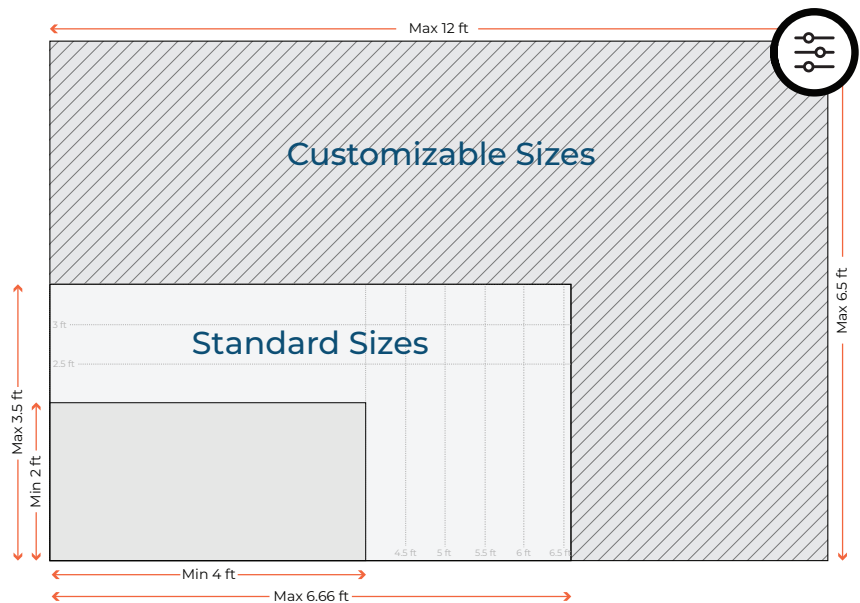
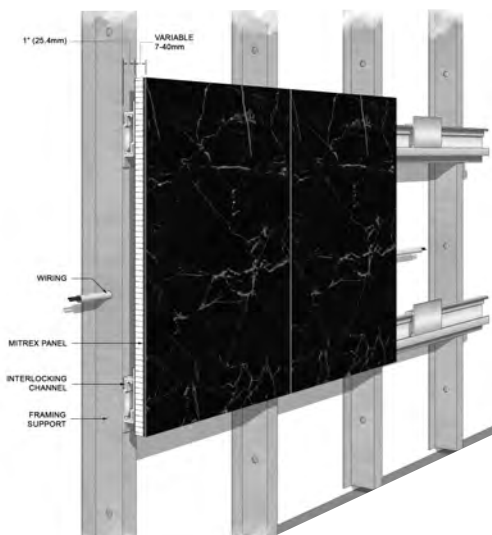


Design flexibility, including size of panels, curves and corners.

Adaptable Panel Sizes

Mitrex offers Solar Cladding panels in virtually any size. Our standard panel sizes range from 2-3.5 ft by 4-6.66 ft. When larger panels are needed, we also offer customized panels that can be a maximum of 6.5 ft by 12 ft.

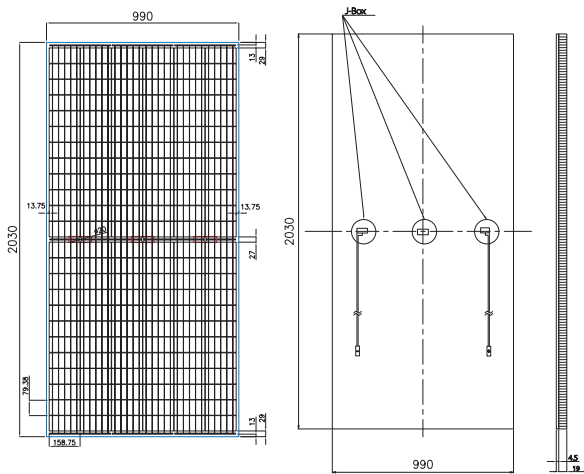
Attachment System Interlocking Channel System





SOLAR CLADDING - Orbit Pattern Facing
With Aluminum Honeycomb
High Efficiency Mono Module
375W
1000V

ENGINEERING DRAWING (mm)



ELECTRICAL DATA | STC*

SPECIFICATIONS

Nominal Max. Power (Pmax)
Opt. Operating Voltage (Vmp)
Opt. Operating Current (Imp)
Open Circuit Voltage (Voc)
Short Circuit Current (Isc)
Cell Efficiency
Operating Temperature
Max. System Voltage
Max. Series Fuse Rating
Application Classification

SOLAR CLADDING

375W
42.3V
8.87A
47.3V
9.28A
22% - 22.5%
-40°C ~ =85°C
1000V (IEC/UL)
20A
Class A

MECHANICAL DATA

SPECIFICATIONS

Cell Type	Mono-crystalline
Cell Arrangement	144 [2x(12x6)]
Dimensions	2030x990mm
Front cover	3.2 mm tempered glass
Back Support	Aluminum Honeycomb
J-Box	IP68, 3 bypass diodes
Cable	4mm ² , 12 AWG (UL)
Cable Length (Including Connector)	500mm, 1000mm, 1200mm
Connector	MC4

TEMPERATURE CHARACTERISTICS

SPECIFICATIONS

Temperature Coefficient (Pmax)
Temperatures Coefficient (Voc)
Temperatures Coefficient (Isc)
Nominal Module Operating Temperature

SOLAR CLADDING

-0.390% / °C
-0.300% / °C
-0.060% / °C
42 ± 3°C

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.