



Aelius Turbina LLP

- www.aeliusturbina.com
- O D-619, Neelkanth Business Park, Vidyavihar West, Mumbai, Maharashtra-400086
- +91 2235584903
- sales@aeliusturbina.com
- +91 9833952878







Our Founder

Mr. Ankit Modi holds a Master's degree in Renewable Energy and Architecture from Nottingham University, UK, and a Bachelor's degree in Construction Engineering.

With over 15 years of experience in the renewable energy sector, he is a recognized expert and a member of several prestigious organization, including BREEAM (UK), IGBC, and GRIHA AP.

Additionally, he is a certified Low Carbon Consultant with CIBSE (UK)

Introduction

At AELIUS, we fuse innovation with design to turn buildings into power-generating masterpieces.

Our cutting-edge BIPV solutions—custom facades to rooftop systems—offer unmatched aesthetics, advanced tech, and high energy performance.

Empowering architects, developers, and homeowners to build a greener, stylish future.

It's not just solar. It's an architectural energy revolution.

OUR

- · Gujarat's largest Roof Top Solar Project - 2MWp
- · India's first Solar-as-a-Roof



- · Runner's up in the International "Innovative Solar Applications" by MNRE & Germany
- PM Modi inaugurates 1 MW Carport



Inception





- Dubai Expo showcasing BIPV
- Best Green **Energy Startup**
- Most Promising **Tech-Startups in** Gulf News, Dubai

JOURNEY

- BIPV Innovation at World **Economic Forum, Davos**
- · Filed Patent for Insulated Solar Board
- · Panellist & Curator of the first Indian BIPV Report by MNRE, CSIR & SUPSI
- Finalist in Maharashtra State innovation Challenge

- · India's first fully automatic manufacturing BIPV Line
- · 20 MWp Solar Park in Maharashtra









- Accredited member
- · 15 MWp Solar Park in Gujarat
- · Part of BIPV taskforce in India led by MNRE, NISE, GIZ

About Us

Aelius is a leading BIPV manufacturer and innovator, combining advanced solar technology with contemporary architecture to deliver energy-efficient and visually striking building designs. Our team dives deep into the specifics of your project, ensuring every solar façade and BIPV solution is customtailored to meet your unique vision and performance goals.





Mission

Making renewable energy accessible to all

Vision

Energising surfaces aesthetically

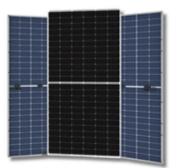
Core values

Innovation, Customer centricity, Transparency



Manufacturing

- Factory area spread over 5 acres
- ●300MWp capacity of standard Solar modules
- **3** million sq. ft. capacity of BIPV modules
- India's first fully automatic BIPV line
- IGBC Green Factory certified
- Located at Halol, Gujarat; 50kms from Vadodara Airport
- Tailor made solutions for Architects, Developers, EPC contractors and Home owners



180 to 740 Wp modules

Colored Facades





Designer

Customised













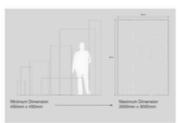






Designing with BIPV

Sizes



Solar panels come in various sizes to suit different architectural needs from compact to large formats. Standard sizes include 457x457. 1200x457, 1200x900, 1800x1200, and 2400x1200 with mm. custom dimensions available on request for a perfect design fit.

Designer solar refers to solar panels or systems crafted with aesthetics in mind, blending renewable energy technology with stylish design elements. These systems, which can include customized colors, textures, or patterns. allow architects and homeowners to incorporate solar power seamlessly into a building's appearance.



Designs

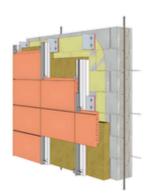


AELIUS - BIPV



Installation

Rainscreen



BIPV panels are mounted on a ventilated substructure, creating an air gap between the panels and the building's insulation layer. This air cavity facilitates natural ventilation, reducing heat buildup and improving the efficiency of the photovoltaic modules. Additionally, it allows any moisture that penetrates the outer layer to evaporate, preventing water ingress into the building.

BIPV cladding involves integrating solar panels into the building façade, replacing traditional wall materials. Installed using a rainscreen approach, these panels generate clean energy while providing weather protection, thermal insulation, and aesthetic appeal.

Cladding











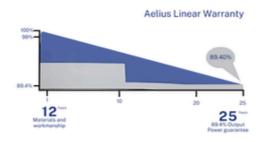




systems generate renewable energy while providing shading, reducing heat gain, and enhancing building aesthetics. They offer an efficient solar solution without requiring major structural modifications.

ATLBS430G12 **430 Watt**

G12 210mm Half cut cells all Black N Type TopCon





Resists 35mm hail Withstands 12-grade winds



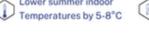
Lower summer indoor



Modular design with standardized prefabricated construction











BIS

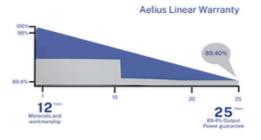






ATLSPXXXG12 XXX Watt

Heterojunction (HJT) 210mm Half cut cells. Panel Wattage depends on size.

















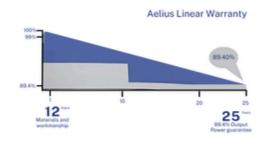




an integrated, aesthetically pleasing way to produce renewable energy without separate panels. Different colors like black, brown, blue possible.

ATLRT120G12 **120 Watt**

G12 210mm Half cut cells N Type TopCon or HJT. Panel size - 1200 x 457 mm





Resists 35mm hail Withstands 12-grade winds



Lower summer indoor Temperatures by 5-8°C

Reduce energy consumption

prefabricated construction

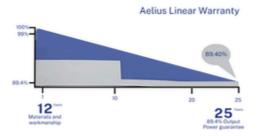




Cladding Solar cladding is an exterior wall covering with built-in solar panels that generate electricity from sunlight. It combines energy production with building insulation, making walls more energy-efficient while adding a modern look to the structure. Different colors available

ATLCLXXXG12 XXX Watt

G12 210mm Half cut cells N Type TopCon or HJT available





on request.

Half Cut N Type or HJT Solar Cells















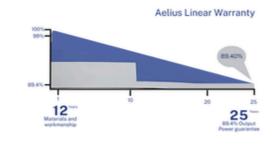




embedded with photovoltaic cells, enabling it to generate electricity from sunlight even in high-traffic areas. These tiles can be installed in outdoor spaces like sidewalks, plazas, and pathways, turning underutilized surfaces into energy-generating assets.

ATLFT40G12 40 Watt

G12 210mm Half cut cells all Black N Type TopCon or HJT. Panel size - 457 x 457 x 17 mm





Resists 35mm hail Withstands 12-grade winds



Lower summer indoor Temperatures by 5-8°C Reduce energy consumption

Modular design with standardized prefabricated construction



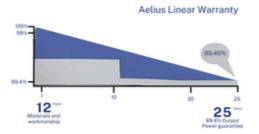




energy technology with stylish design elements. These systems, which can include customized colors, textures. or patterns, allow architects and homeowners to incorporate solar power seamlessly into a building's appearance.

ATLDSXXXG12 XXX Watt

G12 210mm Half cut cells N Type TopCon or HJT available



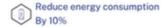


Half Cut N Type or HJT Solar Cells



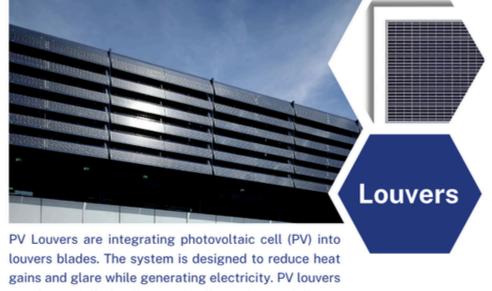








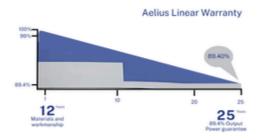




can be installed either vertically or horizontally on building facades or roofs, and they can be fixed or controllable to optimize natural daylight and energy efficiency.

ATLLVXXXG12 XXX Watt

G12 210mm Half cut cells N Type TopCon or HJT available



N Type or HJT Solar Cells

Resists 35mm hail Withstands 12-grade winds 25-year waterproof and Rooftop safety guarantee

Lower summer indoor Temperatures by 5-8°C Reduce energy consumption





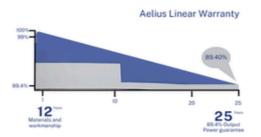




directly into the roof structure, replacing traditional roofing materials with clean energy solutions. With our proprietary leak-proof mounting structure, enjoy dual benefit of roof and solar in one solution.

ATLSR720G12 **720** Watt

G12 210mm Half cut cells all Black N Type TopCon





Resists 35mm hail Withstands 12-grade winds



Lower summer indoor Temperatures by 5-8°C Reduce energy consumption By 10%

Modular design with standardized prefabricated construction



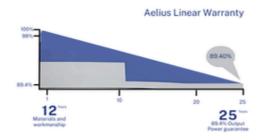






ATLAWXXXG12 XXX Watt

G12 210mm Half cut cells N Type TopCon or HJT available

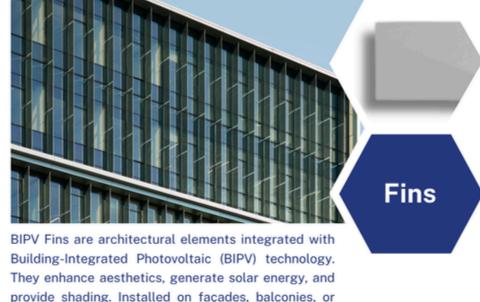


Half Cut N Type or HJT Solar Cells Resists 35mm hail Withstands 12-grade winds 25-year waterproof and Rooftop safety guarantee

Lower summer indoor Temperatures by 5-8°C Reduce energy consumption

Modular design with standardized prefabricated construction



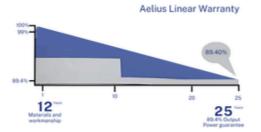


ATLFNXXXG12 XXX Watt

shading structures, they optimize energy capture while reducing glare and improving cooling, making

them ideal for modern, sustainable buildings.

G12 210mm Half cut cells N Type TopCon or HJT available



Half Cut N Type or HJT Solar Cells Resists 35mm hail Withstands 12-grade winds

25-year waterproof and Rooftop safety guarantee

Lower summer indoor Temperatures by 5-8°C Reduce energy consumption By 10%

Modular design with standardized prefabricated construction

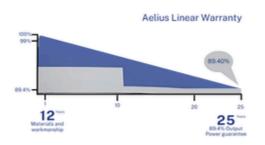






ATLRLXXXG12 XXX Watt

Type TopCon or HJT available



G12 210mm Half cut cells N

Half Cut N Type or HJT Solar Cells Resists 35mm hail Withstands 12-grade winds 25-year waterproof and Rooftop safety guarantee

Lower summer indoor Temperatures by 5-8°C Reduce energy consumption

prefabricated construction

Modular design with standardized

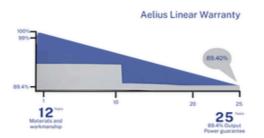
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ATLPG660G12 **660 Watt**

G12 210mm Half cut cells N Type TopCon



Half Cut N Type Solar Cells Resists 35mm hail Withstands 12-grade winds 25-year waterproof and Rooftop safety guarantee

Lower summer indoor Temperatures by 5-8°C Reduce energy consumption By 10%

Modular design with standardized prefabricated construction



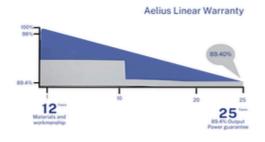




A solar noise barrier is a dual-purpose structure that combines sound insulation with solar energy generation. It typically consists of noise-reducing panels integrated photovoltaic (PV) modules, installed along highways, railways, or industrial zones. These barriers serve the dual function of reducing noise pollution and generating renewable electricity.

ATLNB660G12 **660 Watt**

G12 210mm Half cut cells N Type TopCon





Resists 35mm hail Withstands 12-grade winds



Lower summer indoor Temperatures by 5-8°C Reduce energy consumption

Modular design with standardized prefabricated construction







BESS stores excess solar energy for use during nighttime or power outages, ensuring uninterrupted power and energy independence.

Our advanced storage solutions enhance grid stability, improve energy efficiency, and support a cleaner, more reliable power supply (service provider only).



Micro inverters optimize the performance of each solar panel individually, ensuring maximum energy output even in shaded or complex roof conditions.

They enhance system reliability, offer real-time monitoring, and simplify installation - making your solar setup smarter and more efficient (service provider only)

