YSAGHT

LYSAGHT® BIPV SOLAR SOLUTIONS

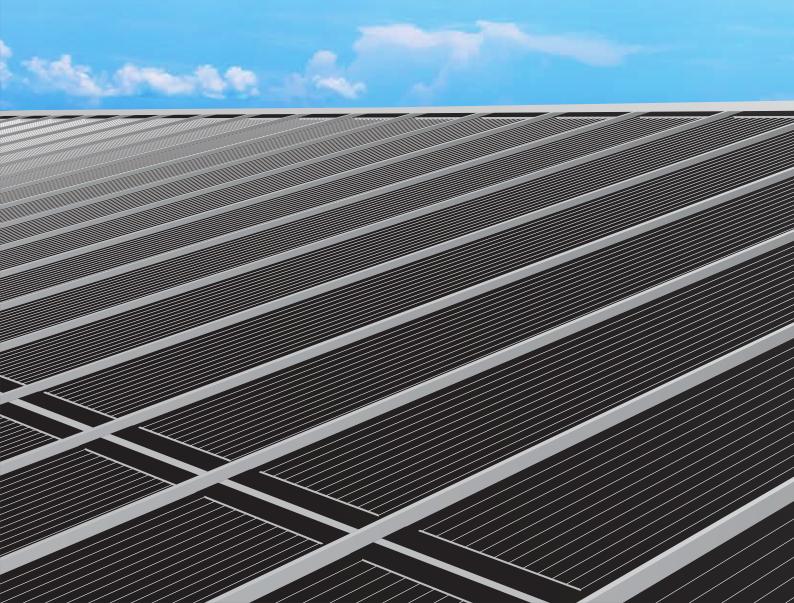
LYSAGHT SOLAR Solutions

What is BIPV Solar System?

A Breakthrough in Solar Harvesting Technology

As the R&D in solar solutions progresses over the years, finally there is a better alternative to solar roofs that combines the practicality and the aesthetic appeal of modern architecture: the BIPV solar system.

BIPV refers to Building Integrated Photovoltaic - the solar panels that are ingeniously integrated into the building's architecture at the design stage, replacing the conventional roofing layer such as a metal deck, tiles or reinforced concrete roof.



BIPV solar system poses numerous advantages, including:

Aesthetics

BIPV solar system is meticulously designed to merge flawlessly into the building's architecture, providing a sleek, graceful, and contemporary look.

Efficiency

A new technology that captures sunlight and converts it into power more efficiently. In terms of space utilisation, BIPV solar system also allows a larger area of roof for sun exposure hence optimising solar energy harvesting.

Streamlined Construction Process

The integration of BIPV panels with roofing panels enables simultaneous installation of both components as a unified system, saving valuable construction time for building owners.

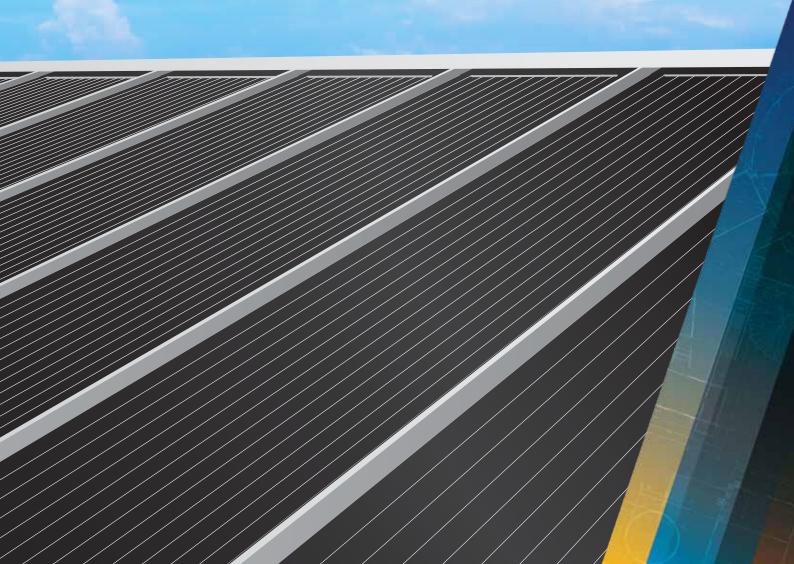
Durability & Longevity

BIPV solar panels are designed to withstand harsh tropical conditions, providing reliable and long-lasting performance.

Ease of Maintenance

The flat, integrated panel surface is robust to accommodate human traffic, and allows safe access. The smooth surface is also resistant to scratches and debris build-up, hence reducing the need for regular cleaning and maintenance.

All in all, BIPV solar system is designed to provide reliable and continuous renewal energy for years to come.

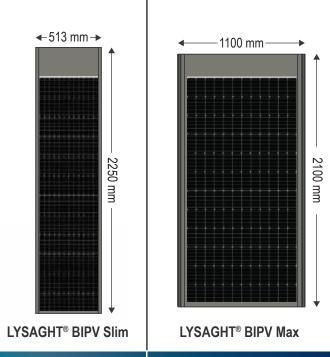


Lysaght® BIPV Solar Solutions

Introducing Lysaght® BIPV Solar Solutions, a revolutionary solar panel system that fuses the power of solar energy with the elegance of modern architecture. The BIPV Solar Solutions seamlessly integrate into the design of a building, enhancing its aesthetic appeal while promoting sophistication and sustainability.







Product Specification		Standard	Standard
Solar Module	Effective Cover Width (mm)	513	1100
	Length (mm)	2250	2100
	Thickness (mm)	3.7	3.7
	Weight (kg/sqm)	10.5	9.7
	Solar Cell Type	Mono Crystalline PERC	
	Front Surface Material	Tempered glass	
	Backplane Material	COLORBOND® ULTRA Steel	
	Fire Safety Class	CLASS A (IEC)	
	Fire Resistance Rating	A2 grade non-combustible material	
COLORBOND® ULTRA Steel	Base Metal Thickness (mm)	0.55	
	Total Coated Thickness (mm)	0.61	
	Coating Class	AZ200	
	Grade of Steel (MPa)	G300 (300MPa minimum yield stress)	
Electrical Performance Parameter (STC) *	Maximum Power (Pmax/W)	180	360
	Maximum Power Voltage (Vmp/V)	13.6	26.1
	Maximum Power Current (Imp/A)	13.23	13.83
	Open Circuit Voltage (Voc/V)	16.3	32.1
	Short Circuit Current (Isc/A)	14.12	14.75
	Module Efficiency (%)	17.3	16.7
Temperature Coefficient (STC) *	Temperature Coefficient of Isc (% / °C)	+0.05	7
	Temperature Coefficient of Voc (% / °C)	-0.29	
	Temperature Coefficient of Pmax (% / °C)	-0.39	

^{*} Standard Testing Condition (STC): 1000W/m², Temp 25°C, AM1.5, Power Tolerance 0~+5W

Why Lysaght® BIPV Solar Solutions?

Aesthetic, Efficient, and More Return on Your Investment

Seamless & Elegant

Lysaght® BIPV Solar Solutions are engineered with thin PV panels ingeniously merged with Lysaght® metal profiles, eliminating the need for additional clamps and brackets.

With a slim 3 mm thickness, it maintains a sleek and sophisticated appearance, enhancing the building's aesthetics even up close.

Superior Power Generation Efficiency, Quicker Return on Your Investment

Lysaght® BIPV Solar Solutions provide extensive coverage across nearly the entire roof area, enabling comprehensive sunlight harvesting.

The solution incorporates micro-inverter technology, where each panel operates independently. This ensures circuit safety, efficient energy conversion, and unaffected performance even if one panel is shaded.

Fuss-Free, One-Stop Solution

With Lysaght® BIPV Solar Solutions, building owners can avoid the hassle of dealing with multiple parties for their solar needs. Our expert team handles everything from assessing energy requirements to installation and maintenance. This streamlined approach saves time and ensures a smooth and efficient project.

Solar Monitoring App - Easy Monitoring of Power Generation

Lysaght® BIPV Solar Solutions is linked to a Solar Monitoring App that enables easy tracking of your solar system performance.

With a user-friendly interface and real-time data, you can easily monitor energy production and usage, making adjustments as needed. The app also allows monitoring of individual micro-inverters and panels, enabling quick detection of underperforming units. This ensures prompt troubleshooting and saves time on repairs.

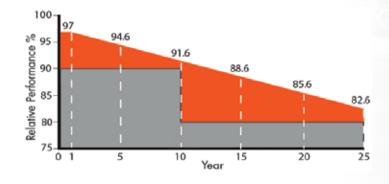
Reliability Assured - Warranty Direct from the Manufacturer

Lysaght® BIPV Solar Solutions with Colorbond® steel roofing provides a comprehensive warranty*. You can enjoy peace of mind knowing that your investment is protected against defects and malfunctions.

Our Warranty* Scope:

- √ Up to 25 Years on Roofing Perforation Due to Corrosion
- √ Up to 10 Years on Colour Fading
- √ Up to 25 Years on Solar PV Cells
- √ 25-year linear power warranty at STC:
 - Year 1: < 3% of rated power
 - After Year 1: < 0.6% rated power degradation per year

*Warranty Terms & Condition apply



Lysaght® BIPV Solar Solutions is your ultimate choice for design ingenuity, energy efficiency, and good returns on your investment.

Whether you are building a residential house, commercial or industrial building, Lysaght® BIPV Solar Solutions is designed to support your needs.

Contact us today to learn how we can help you power your space with style.







COATING



COLOUR CHOICES



DESIGN FLEXIBILITY



DURABILITY / SECURITY



HI-TECH PRODUCTION



RECYCLING



TERMITE PROOF



THERMAL EFFICIENCY



WARRANTY



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