

PIENAAR ENERGY (PTY) LTD

New solar glass project in Amsterdam



**Efficient
Higher Revenue**

- Max. Efficiency 97.5%
- Max. PV Input Voltage 600V
- 150% Peak Output Power
- 2 MPP Trackers, 150% DC Input Oversizing
- Max. PV Input Current 16A, Compatible with High Power Modules



**Intelligent
Simple O&M**

- IP66 Protection Degree: support outdoor installation
- Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
- DC & AC Type II SPD: prevent lightning damage
- Battery Reverse Connection Protection



**Flexible
Abundant Configuration**

- Plug & Play, EPS Switching Under 10ms
- Compatible with Lead-acid and Lithium Batteries
- Max. 6 units Inverters Parallel
- AFCI Function (Optional): when an arc-fault is detected the inverter immediately stops operation

Overview

The new Student Experience International building located in Minervahaven, Amsterdam, features more than 3,000 square meters of individually tilted solar panels covering the entire building's envelope and providing a large part of the building's energy. The renovation of De Kikker, originally designed by Liesbeth van der Pol of DOK architects, is an initiative of the Municipality of Amsterdam. In the summer of 2024, the building underwent a complete metamorphosis. The outdated, bright green plating made way for custom-made, colorful solar panels. Many assume that the solar panels of SEI are made of different colored glass, however in reality, the color play is created by the incidence of light and the viewing angle, resulting in a dynamic facade that looks significantly different at noon than at sunset. The solar panels are slightly rotated.

BER: Berlin Airport is getting three solar roof systems

SoliTek's new generation of full-black solar modules features matte, structured front glass, a surface engineered to reduce reflectivity and meet the highest optical safety standards. This facility, featuring nearly 230,000 photovoltaic (PV) panels, caused temporary runway closures, particularly affecting the.

SolarNL is not just about increasing production; it's about revolutionizing the solar industry with new technologies. The program focuses on three key areas: high-efficiency silicon "heterojunction" solar cells, flexible solar foils based on the novel material perovskite, and tailor-made.

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SolarNL: Revolutionizing Solar Energy in the Netherlands , Amsterdam

In an ambitious move to accelerate the Netherlands' energy transition, the SolarNL program was officially launched, with AMOLF at the Amsterdam Science Park playing a leading role. ...

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After Schiphol glare issues, new solar glass offers safer solution

Earlier this year, flights at Amsterdam's Schiphol Airport were grounded due to an unexpected safety issue: glare from nearby solar panels was blinding pilots during morning landings. ...



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Retailand House Moving Glass Walls in Amsterdam , IQ Glass

Entire walls of moving glass walls have been achieved using minimal windows slim framed sliding doors in Amsterdam, which offer 21mm sightlines to forge a strong connection to the outdoor environment.

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Pioneering Sustainable Solar Panels: Amsterdam's Move Towards

To advance these goals, the Municipality of Amsterdam is collaborating with various partners, like ZonNext, to develop more sustainable and circular solar panels.



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Primary school De Kikker (The Frog), Amsterdam , Solarix

The Kikker, designed by Dot Architects, will undergo a metamorphosis in the summer of 2024: bright green plating will be replaced by colorful, custom-made solar panels from Solarix.

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Glare Disruption: Amsterdam Airport's Solar Panel Dilemma

In early 2025, Amsterdam Airport Schiphol faced significant operational challenges due to solar glare from the adjacent De Groene Energie Corridor (DGEC) solar park.

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EDGE AMSTERDAM WEST

Edge Amsterdam West is an exciting



new real estate project that has become a lesson in how high-performance glass can work in harmony alongside technology, cutting-edge architecture and a large ...

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Student Experience International , Solarlab

The new Student Experience International building located in Minervahaven, Amsterdam, features more than 3,000 square meters of individually tilted solar panels covering the entire building's envelope ...



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- IP65/IP55 OUTDOOR CABINET
- OUTDOOR MODULE CABINET
- OUTDOOR ENERGY STORAGE CABINET
- 19 INCH

Smart Glass in Amsterdam, The Netherlands

Amsterdam's rapid growth is a unique opportunity for architects and designers to use Gauzy's Smart Glass, which changes glass from transparent to opaque on demand, making it ideal for privacy, ...

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Daylighting and energy generation come together in LAB42 atrium

The 3-by-3-meter glass roof features three solar control windows. The fourth pane is a BIPV pane, with solar cells inserted between the glass panes. The new building came about through ...

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