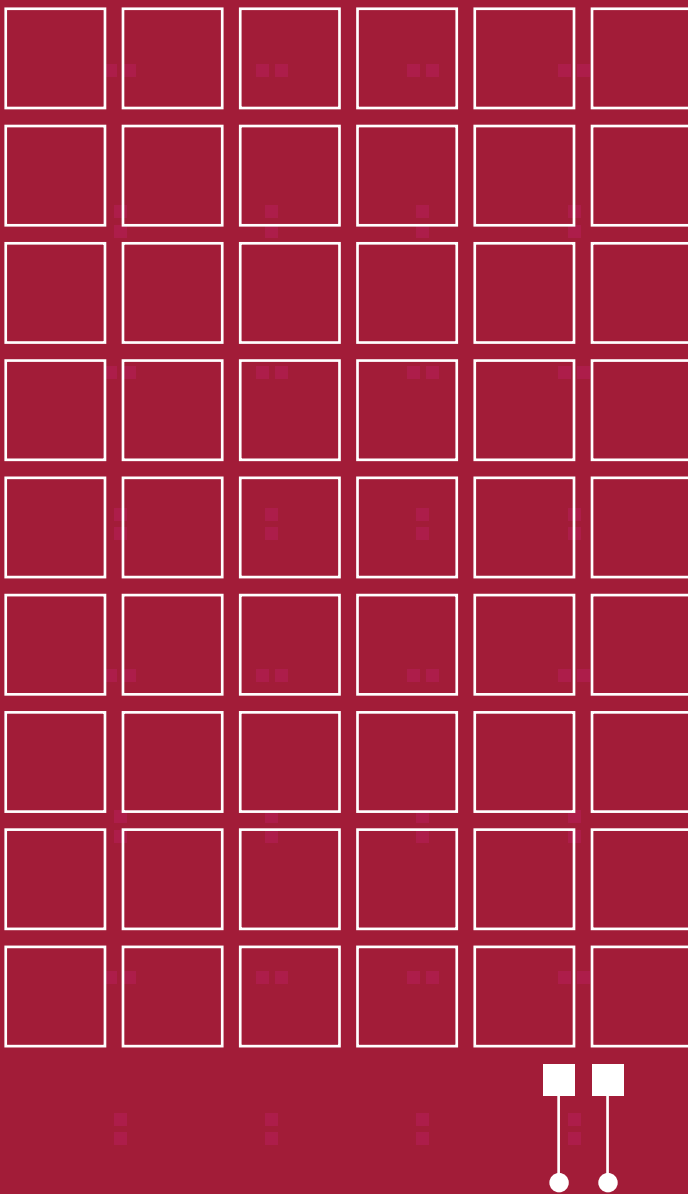


New generation Glass-Glass PV modules

Longer lifetime, increased power output,
mechanical durability and aesthetic.



Powered by



PV Glass Manufacturing & Architectural Energy Solutions



Increase in LIFETIME

Longevity and stability of PV module performance are the key attributes of reduced PV electricity cost. Thanks to unique ViaSolis lamination technology Glass-Glass modules are distinguished by significantly increased LIFETIME.



Wider spectrum of light

Superior power output of ViaSolis module is achieved with specially developed encapsulation material allowing a 20% wider light spectrum utilization - advantage distinguishing ViaSolis module in PV industry.



Higher YIELD

Improved encapsulation transmittance, enhanced light wave absorption, increased heat dissipation, reduced reflection losses - features that increase the YIELD of ViaSolis PV module up to 10%.

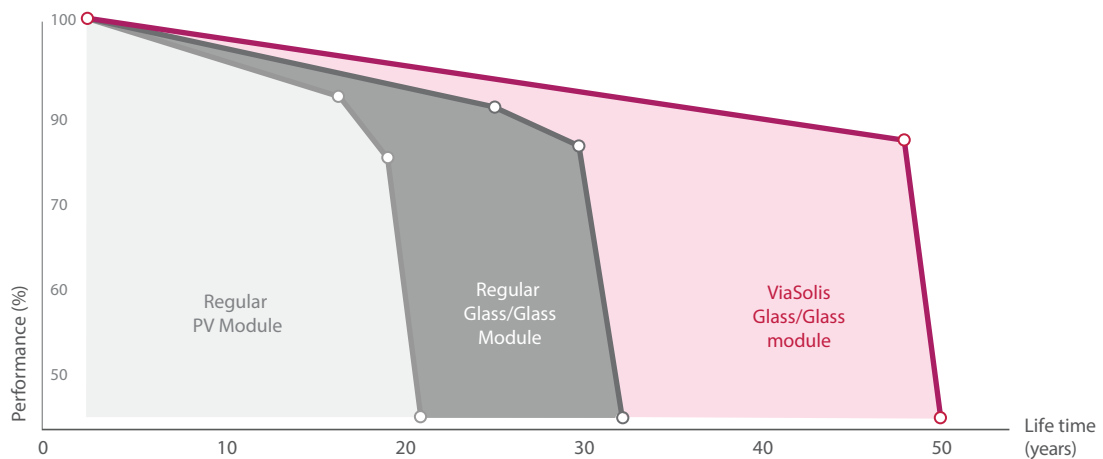


up to **50%** longer
LIFETIME

New generation
Glass-Glass
PV modules

Stable yields over the long-term[■]

While the performance of glass-foil modules facing sharp decreases after 20 years at the latest due weak stability of encapsulation structure, higher quality Glass-Glass PV modules assures long-lasting performance over 30 years. However, manufacturing of Glass-Glass PV module is quite complicated, demanded for specially intended machinery and knowledge.

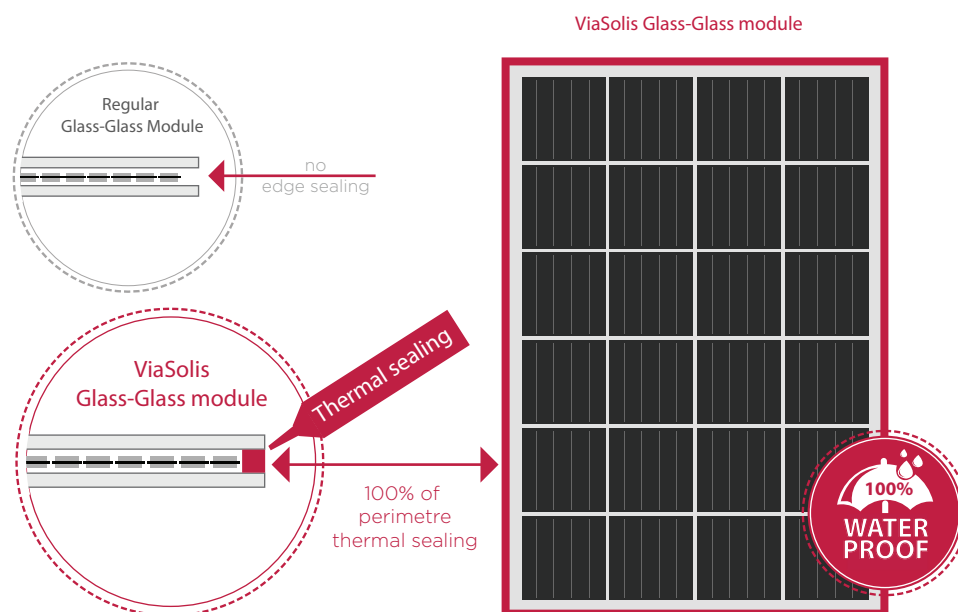


Thanks to ViaSolis unique lamination technology based on long-term experience of Automotive and Glass processing industries, the ViaSolis module ensures excellent power output and stable yields over the 50 years exposed at extreme conditions even.*

*based on market experience and long-term climate chamber tests.

Protective thermal edge sealing[■]

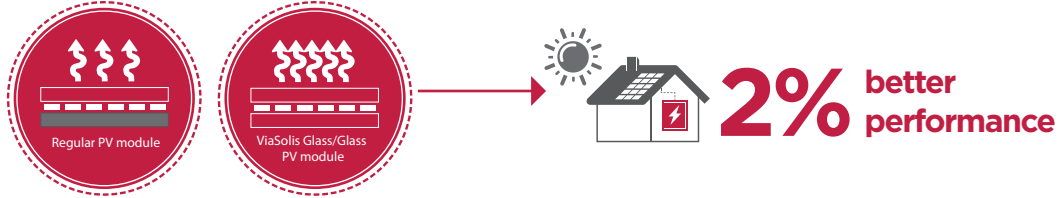
ViaSolis modules are 100% protected against moisture negative impact. Thermal edge SEALING applied on all module perimeter eliminates the possibility of humidity influenced semi-conductor corrosion and prevents delamination, which extends the LIFETIME of ViaSolis Glass-Glass modules for over 50 years.



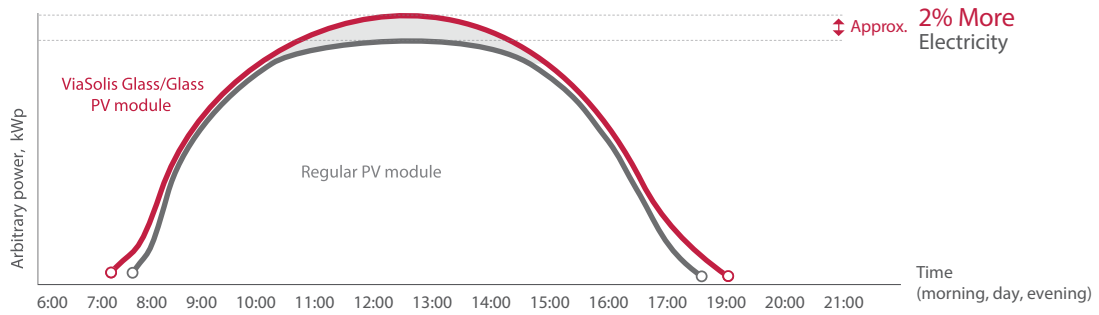
up to **10% higher OUTPUT**

New generation
Glass-Glass
PV modules

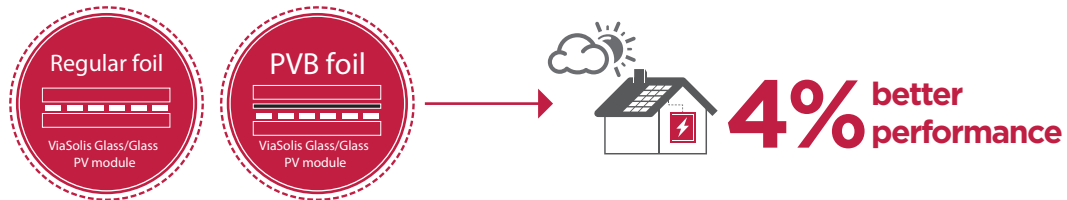
Better heat dissipation



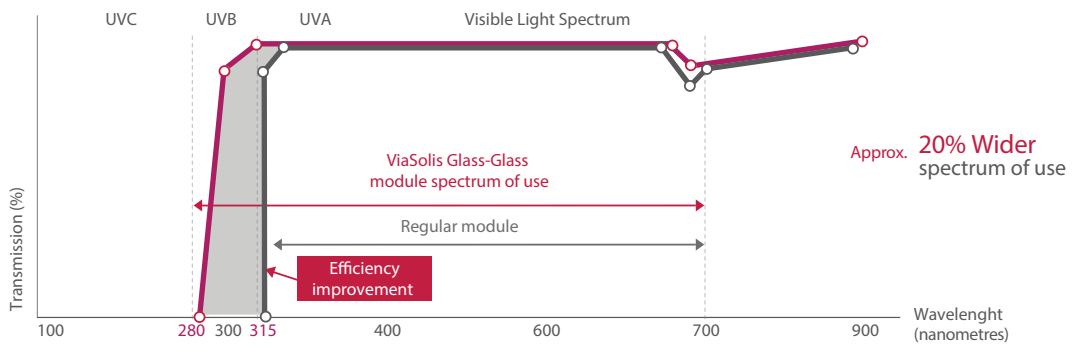
Solar panel temperature effects output of panel significantly, therefore thermal conductivity of encapsulate is a key factor for module performance. The glass is 3 times better thermal conductor than polymer-based back sheet used by conventional modules. Due to this feature performance of Glass-Glass PV module remarkable higher.



Higher solar transmission



Encapsulate used in ViaSolis modules has a 20% higher transmission of light in UVB range, that measurably improves power output of the module due to increased performance at low solar radiation conditions (for example on cloudy days, mornings and evenings).



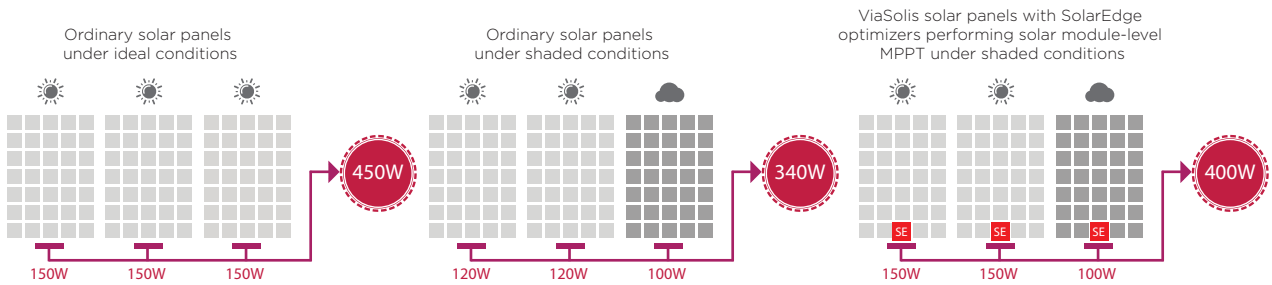
 **Electrosuisse**
Swiss certification Body

ViaSolis Glass/Glass module is the first PV module tested and approved by the Electrosuisse - main Swiss certification body.

Exclusively superior solution – Glass-Glass module with already embedded SolarEdge power optimizer[■]

SolarEdge optimisers mitigate all types of modules mismatch-loss, from manufacturing tolerance to partial shading. With SolarEdge, each ViaSolis panel produces the maximum energy without affecting the performance of other panels.

→ **25% higher YIELD**



In case of failure, Solar edge optimizers limit the voltage per module to 1V for increased safety of installers, maintenance personnel and firefighters.

Building integration[■]

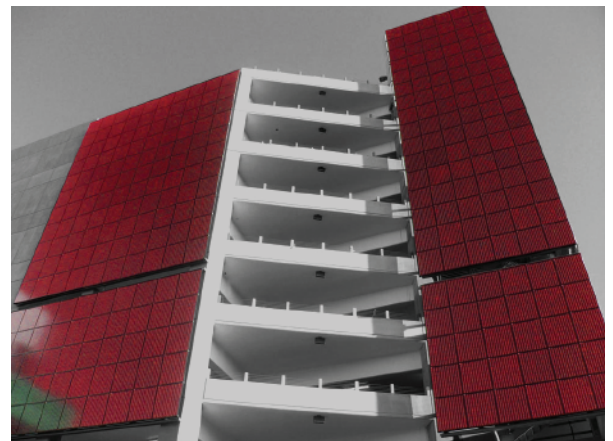
Roofs

Architectural and esthetics demands satisfied – full cover for the roof with perfect aesthetical look in different colours.



Ventilated Glass Facades

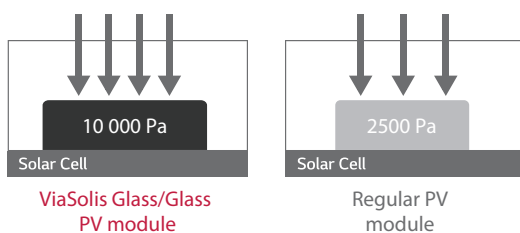
Homogeneous appearance: PV Cells & non-active elements on facade and areas submitted to high shadowing effects.



Safety[■]

Heavy Loads

ViaSolis modules are manufactured of exact encapsulation materials facing each other. Due to SYMETRICAL DESIGN zero static force effects to the PV cell during impact of wind and snow load.*



*depending on the mounting solution

Fire resistant

Glass unlike plastic is an incombustible material so the Glass-Glass modules are more fire resistant than standart PV modules containing plastic backsheets.





Key Features



Quick and easy installation due to less components for the mounting system.



Easy and flexible maintenance



Aesthetically superior solution. Full cover for the roof with perfect and aesthetical look in different colours.



50+ year lifetime. Edge-sealant protection assures superior atmospheric and humidity resistance.



Back glass instead of plastic assures durability and robust protection against UV, moisture, ammonia and salt corrosion.



Higher heat dispensing - glass is better thermal conductor than plastic back-sheet in standard modules ensuring higher efficiency in hot climate.



100% PID free cells. Potential induced degradation is eliminated at cell level using PVB lamination foil.



Wider light spectrum absorbed. PVB lamination foil utilise light spectrum starting from 280nm.

Powered by

 **VIASOLIS**

PV Glass Manufacturing & Architectural Energy Solutions

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