

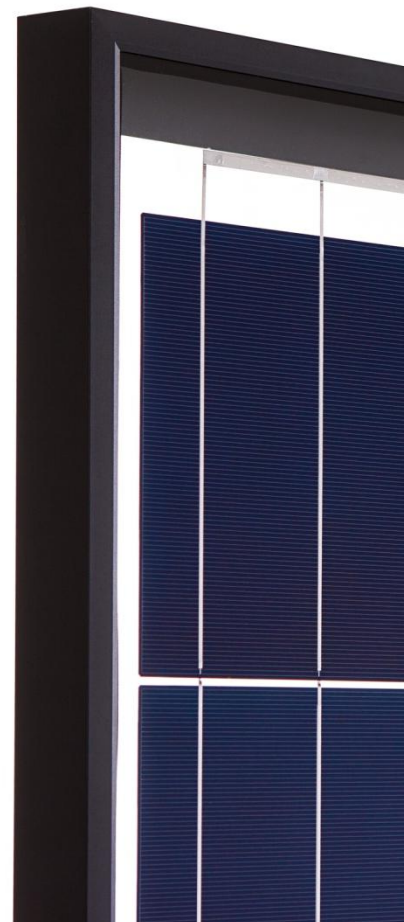
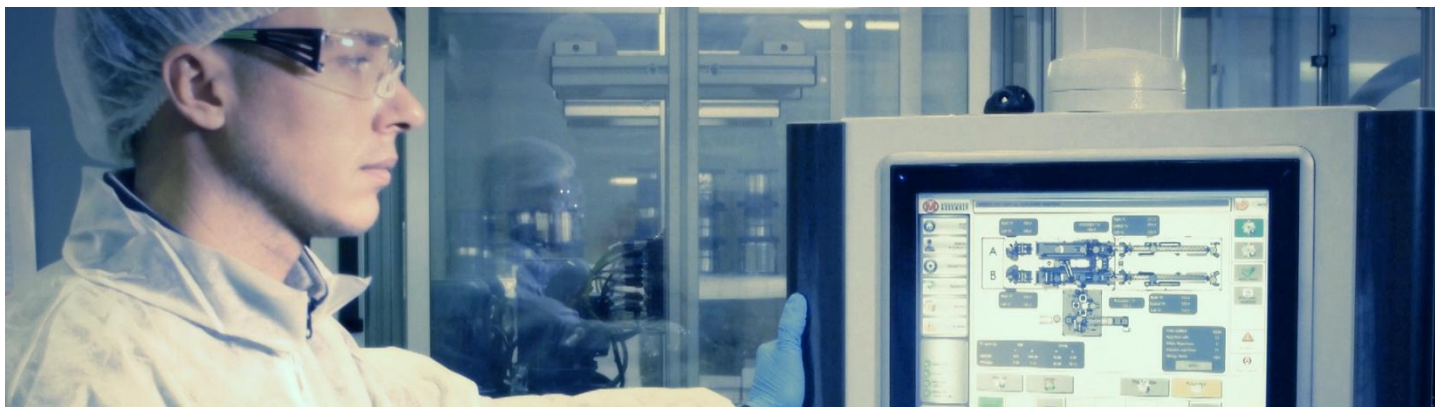
Advantages of ViaSolis Glass/Glass modules

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ViaSolis is an international manufacturer of PV glass and provider of Architectural Energy Solutions. The company was established in 2009.

Via Solis operates one of the most advanced production facilities in EU. Company merges and utilizes best achievements from PV, glass processing & lamination as well as insulated glass manufacturing industries.

Via Solis is able to supply both, standard glass/glass PV modules and entirely customised PV safety glass components, representing a wide range of shape, size, glass features and colours, as well as transparency.

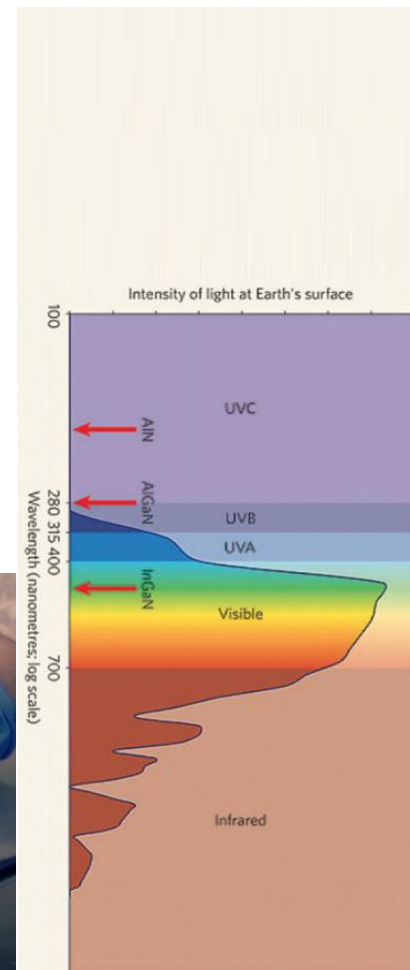


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More than 6 % increased of the module efficiency, determinate by:

- use of thin glass that increases light transmission. This corresponds to 4% increase in yield (kW/h per kW/p) or in other words to a reduction of all optical losses in a solar module by 40 %;
- lamination foil specially developed to glass/glass PV industry (PVB) increase a spectrum of use of light waves from 280 nano-meters in length. Standard modules used only on the EVA-320 nano-meters that almost 20% shorter

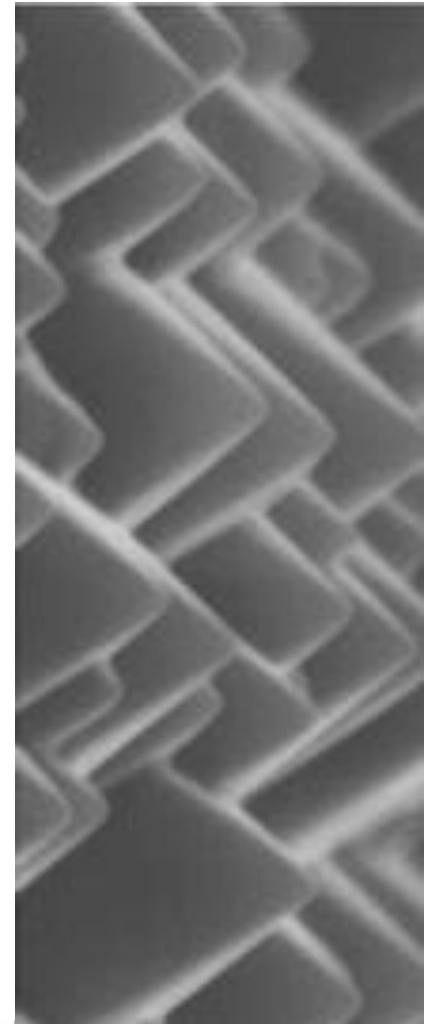
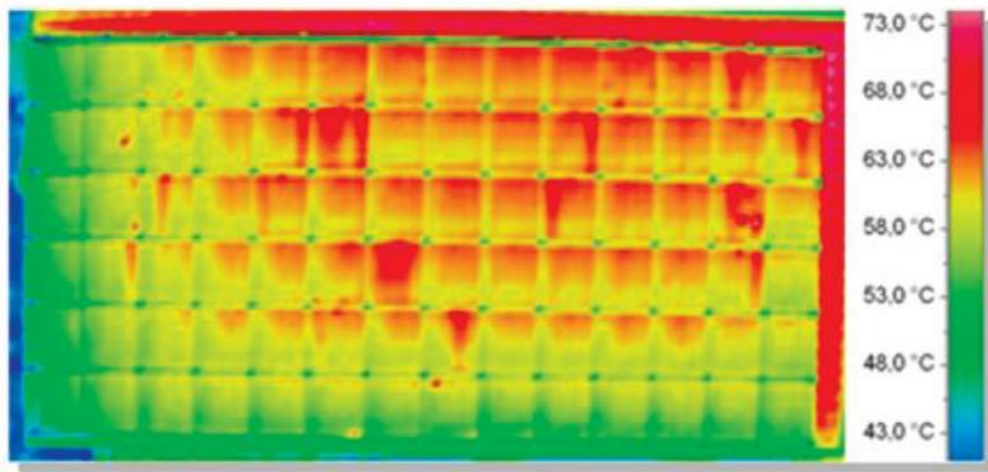


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More than 6 % increased of the module efficiency, determinate by:

- PV cell's surface, used for ViaSolis glass/glass modules production, is specifically designed for the structure of lamination foil, which reduces banding losses up to 60 % (0.8% versus standard module – up to 5 %);
- the PVB film used in the back is extremely bright white (ultra White), which increases the light reflection in the glass top, and the flow cell;
- glass/glass module has better cooling properties. The 1 C° decrease of module temperature increases the p-CI module efficiency of 0.42 %

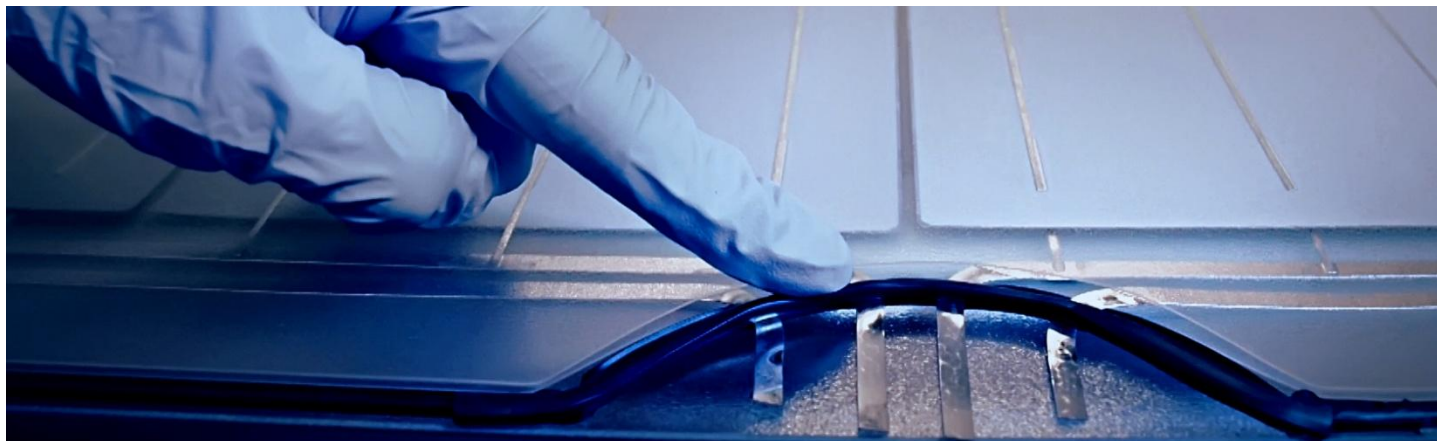


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Improved lifetime performance up to 35-40 years

- Longer duration of exposure time is achieved by changing the insulating polymer sheet into lasting glass;
- Perimeter of the module is 100% covered with thermoplastic insulation (Butyl), which eliminates access of moisture to the PV cells. The durability tests of PV modules show that the main reason of the fall of the efficiency of the modules is influenced of the penetration of the moisture



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Improved lifetime performance up to 35-40 years

- Using the same thickness of material in ViaSolis module creates an ideal module design in terms of mechanical strength. The structure of same thickness glass (top and bottom) determinate the zero-force in the PV cell despite external load forces (wind, snow) that influence PV module during lifetime of it.
- Low vacuum based technology used by ViaSolis for PV module lamination does not create stress to the PV cells. The prismatic structure of PV cell surface is a key factor determining the efficiency of the module. Assurance of stability of prismatic structure of PV cell – essential factor for stability of lifetime efficiency of the module.



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The module manufacturing process reduces energy consumption by 59.5%

This factor solves the environmental dispute, which is based on the fact that the most of the electricity used in Asia origin PV module production is produced in the most environmentally harmful way (coal-power plants)



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