

ViaSolis Solrif 250 – 270

Glass/Glass in-roof system with 60 cells modules



Perfect union of ViaSolis Glass/Glass modules and Solrif mounting solution

Thanks to the patented photovoltaic in-roof mounting system by Solrif[®], it is easy to turn a frameless ViaSolis Glass/Glass module into a solar power generating roof tile; thus, replace conventional roof cover.

Unlike on-roof systems, this roof integrated mounting system is a true alternative to conventional roof covers. More and more leading manufacturers of photovoltaic modules are offering their products with the simple yet proven Solrif[®].

The Solrif[®] mounting system is suitable for various roof types. It can be used in complete or partial photovoltaic roofing, including in combination with solar thermal collectors or roof penetrations (such as skylights, chimneys, etc.). The flexible design options of Solrif[®] allow a simple and quick installation.

ADVANTAGES OF PV ROOF INTEGRATION ARE:

- Architectural and aesthetic demands satisfied.
- Roof tiles, slates etc. substituted by PV panels save roofing costs during construction or renovation.
- **Particularly suitable for renovation. This will be an important topic in the near future.**
- Decreased CO2 emission because tiles are not necessary.
- Less insurance costs, as the system is part of the building







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Glass/Glass modules - advanced choice for those who look for durability, safety, efficiency.

KEY FEATURES



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

Easy and flexible maintenance - single module pick inside the field is possible. Module based monitoring possible with SolarEdge Technology.

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

50+ year lifespan. Edge-sealant protection ensures superior atmospheric and humidity resistance.



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



Higher heat dispersal. Glass is a better thermal conductor than a plastic back-sheet in standard modules ensuring higher efficiency in hot climates.



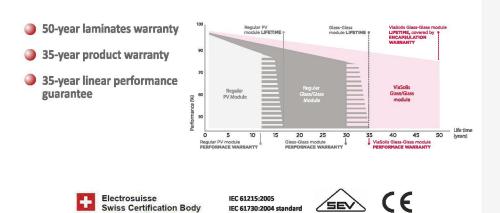
100 % PID free. Potential induced degradation is eliminated at cell level with special ARC structure and in module level by using PVB lamination foil.

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

RELIABLE QUALITY

- Positive power tolerance 0/+5 W
- 100% double quality control ensures modules are defect free
- **Fully automated production lines**
- **Designed and manufactured in EU**

MANUFACTURER WARRANTY





SOLRIF system options







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VIASOLIS

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PV Glass Manufacturing & Architectural Energy Solutions

MECHANICAL PARAMETERS

WORKING CONDITIONS

ENGINEERING DRAWING

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Cell (mm)	Mono black/Poly blue (156x156)	Maximum System Voltage	
Weight (kg)	23 (approx.)	Operating Temperature	
Dimensions (L×W×H) (mm)	1723 x 1023 x 17		
Cable Cross Section Size (mm ²) / Plugs	6/MC4	Maximum Current	
No. of Cells in the Module	6 (10x6)	Maximum Static Load, Front	
Junction Box	Choice of SolarEdge optimizer or Standard J-box		
Front / Back Glass (mm)	2,1/2,1		
Packaging Configuration	16 per pallet	Safety Class	

Maximum System Voltage	DC 1000V (EU)
Operating Temperature	-40 °C~+85°C
Maximum Current	15A
Maximum Static Load, Front (wind / snow)	10000Pa / 10000Pa
NOCT	43,6°C
Safety Class	II

ELECTRICAL PARAMETERS

ТҮРЕ	ViaSolis Solrif 60.P 250	ViaSolis Solrif60.P 255	ViaSolis Solrif60.P 260	ViaSolis Solrif60.M 265	ViaSolis Solrif 60.M 270
Rated Maximum Power at STC (Wp)	250	255	260	265	270
Open Circuit Voltage (Voc/V)	37.57	37.63	37.66	38.43	38.47
Maximum Power Voltage (Vmp/V)	30.14	30.17	30.19	30.78	30.82
Short Circuit Current (Isc/A)	8.87	9.04	9.21	9.12	9.29
Maximum Power Current (Imp/A)	8.30	8.46	8.62	8.61	8.77
Module efficiency [%]	15.08	15.38	15.68	15.98	16.29
Power Tolerance	0/+5 W	0/+5 W	0/+5 W	0/+5 W	0/+5 W
Temperature Coefficient of Isc (alsc)	+0.05%/°C	+0.05%/°C	+0.05%/°C	+0.0455%/°C	+0.0455%/°C
Temperature Coefficient of Voc (βVoc)	-0.34%/°C	-0.34%/°C	-0.34%/°C	-0.3055%/°C	-0.3055%/°C
Temperature Coefficient of Pmax (γPmp)	-0.42%/°C	-0.42%/°C	-0.42%/°C	-0.3910%/°C	-0.3910%/°C
STC	Bestrahlungsstärke 1000 W/m², Modultemperatur 25°C, AM 1,5				

Module Power		255	260	265	270
	1ph		8		
MINIMUM string size with SolarEdge inverter	3ph		16		
	3ph-MV		18		
	1ph	20	20	19	19
MAXIMUM string size with SolarEdge inverter	3ph	44	43	42	41
	3ph-MV	50	49	48	47
String size with Non-SolarF		Accor	ding to inverte	r decign rules	

Output Voltages and Currents		
Operating Output Voltage when connected to SolarEdge Inverter	5-60	Vdc
Operating Output Voltage when connected to Non-SolarEdge Inverter	5-Voc of module	Vdc
Maximum Output Current when connected to SolarEdge Inverter	15	Adc
Maximum Output Current when connected to Non-SolarEdge Inverter	10	Adc
Output in Standby mode with SolarEdge inverter or with SMI and Non-SolarEdge inverter (when disconnected from inverter or inverter off)	1	Vdc

Junction Box Standard Compliance

		1		
Fire Safety:	VDE-AR-E 2100-712:2013-05		PV Junction Box Safety:	IEC62109-1 (class II safey, TUV-SUD), UL1741 (TUV-Rheinland & CSA)
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PV Junction Box:	En50548 (TUV-SUD), UL3730 (TUV-Rheinland & CSA)	1		

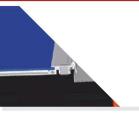
SOLRIF

Easy Installation

The modules are held by metal clamps that are mounted to the roof battens. This allows for quick and easy installation.

Optimal Weather-tightness

Frames are shingled from top to bottom and are interlocking left to right much like tiles for optimal weather protection. For roof pitches between 10 and 70 degrees (lower slopes require rain-proof or water-tight substructure).





ADVANTAGES AT A GLANCE

- Substitutes conventional roof cladding
- As weather-tight as a traditionally tiled roof
- Tried and tested in thousands of roofs for more than 10 years
- Higher surface yield due to narrow frame profiles
- Short energy pay-back of just 3 years
- Good ventilation due to sleek frame profile
- Weather-protected cabling
- Easy to service
- Requires no maintenance

Specifications subject to technical changes and tests. Manufacturer reserves the right of final interpretation.



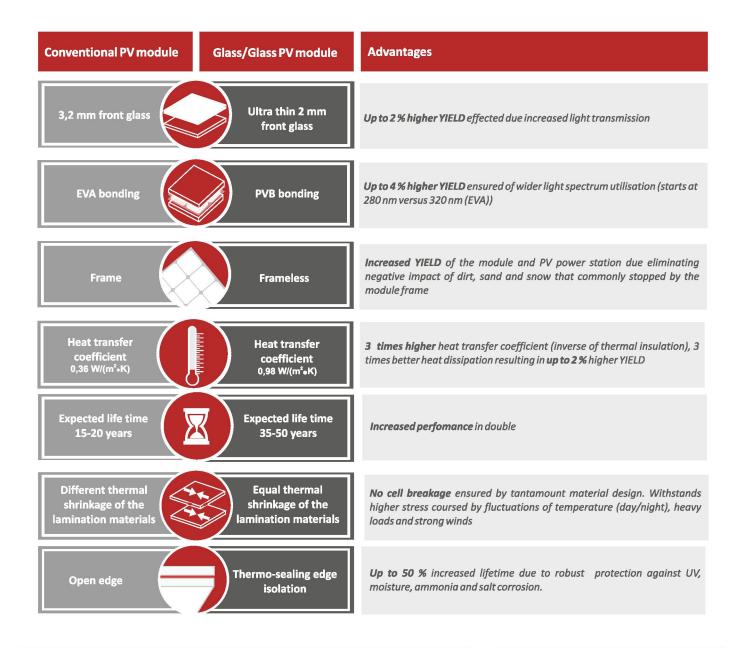
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Advantages of Via Solis Glass/Glass PV module



SOLAREDGE

To maximize power generation for PV systems and to prevent modules from malfunctions, solar power harvesting and PV monitoring systems are necessary. ViaSolis PV modules have already an embedded SolarEdge Optimizer which, in combination with SolarEdge inverter and module level monitoring, guarantees up to 25% more energy due to MPP tracking and Module level monitoring. Advantages in combination with Solrif[®]: Optimum protection of wooden structure against fire. Easy maintenance by module level based monitoring. ViaSolis PV modules with standard junction box are available as well.

RELIABILITY

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

