VIASOLIS
PV Glass Manufacturing & Architectural Energy Solutions

ViaSolis PRIME 245 - 270

Glass/Glass 60 cell module

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

Why Glass/Glass technology?

Glass/Glass (G/G) modules are produced by laminating PV cells between two glasses, instead of standard glass and plastic.

In comparison with standard modules, the same glass material resistance and heat dispensing is more durable in fluctuating temperatures, hot and humid climate zones, ensuring 50 years lifetime.

Unlike other G/G modules in the market, ViaSolis uses innovative edge-sealant technology to protect PV cells from humidity.

PV cells are manufactured in-house using advanced technologies ensuring elimination of potential induced degradation (100% PID free cells).

Both ViaSolis cells and modules are manufactured using green energy – geothermal, solar and hydro power.

KEY FEATURES

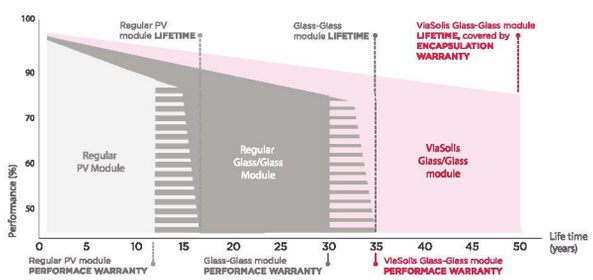
- **50+ year lifetime.** Edge-sealant protection assures superior atmospheric and humidity resistance.
- **Back glass** instead of plastic assures durability and robust protection against UV, moisture, ammonia and salt corrosion.
- **Higher heat dispensing.** Glass is better thermal conductor than plastic back-sheet in standard modules ensuring higher efficiency in hot climate.
- Possibility to **bond the PV modules** with adhesive material.
- **100% PID free cells.** Potential induced degradation is eliminated at cell level using PVB lamination foil.
- Compliant with **IEC 61215:2005, IEC 61730:2004 standard**
- **Wider light spectrum absorbed.** PVB lamination foil utilise light spectrum starting from 280nm.
- **Customised choice.** Range of dimensions, forms, colours and efficiency for BIPV solutions.

RELIABLE QUALITY

- **Positive power tolerance 0/+5 W**
- **100% double quality control ensures modules are defect free**
- **Fully automated production lines eliminates human mistakes**
- **Manufactured and assembled in EU (Vilnius, Lithuania)**

MANUFACTURER WARRANTY

- 50-year laminate waranty
- 35-year product waranty
- 35-year linear performance guarantee



Electrosuisse
Swiss Certification Body

IEC 61215:2005
IEC 61730:2004 standard

SEV

CE

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MECHANICAL PARAMETERS

Cell (mm)	156x156
Weight (kg)	27.3
Dimensions (LxWxH) (mm)	1673x991x7.5
Cable Cross Section Size (mm^2) / Plugs	4 / MC4 compatible
No. of Cells in the Line	60 (10x6)
Junction Box	Huber+Suhner J-Box
Front / Back Glass (mm)	3.2 / 3.2
Packaging Configuration	16 per pallet

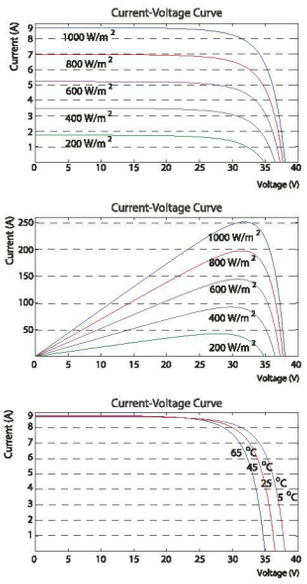
WORKING CONDITIONS

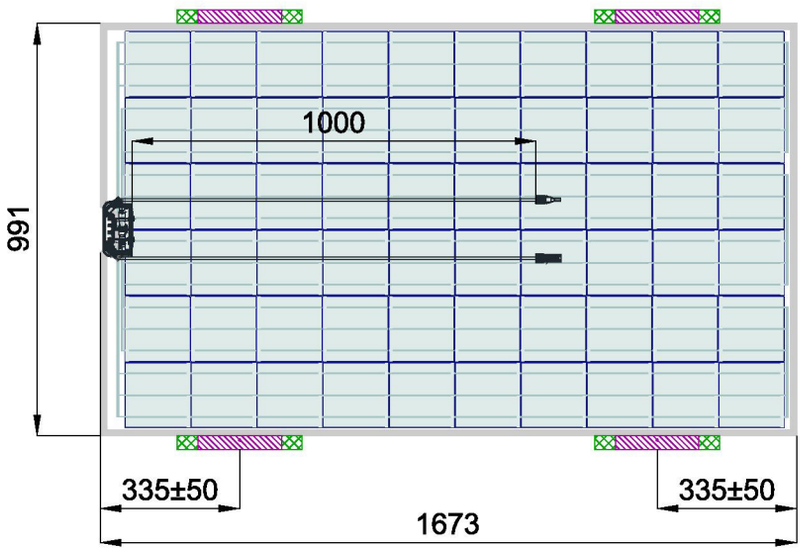
Maximum System Voltage	DC 1000V (TÜV)
Operating Temperature	-40 °C~+85°C
Maximum Reverse Current	15A
Maximum Static Load, Front (wind / snow)	10000Pa / 10000Pa
NOCT	43,6°C
Safety class	II

ELECTRICAL PARAMETERS

TYPE	ViaSolis PRIME 60.P 245	ViaSolis PRIME 60.P 250	ViaSolis PRIME 60.P 255	ViaSolis PRIME 60.P 260	ViaSolis PRIME 60.M 265	ViaSolis PRIME 60.M 270
Rated Maximum Power at STC (Wp)	245	250	255	260	265	270
Open Circuit Voltage (Voc/V)	37.54	37.57	37.63	37.66	38.43	38.47
Maximum Power Voltage (Vmp/V)	30.12	30.14	30.17	30.19	30.78	30.82
Short Circuit Current (Isc/A)	8.68	8.87	9.04	9.21	9.12	9.29
Maximum Power Current (Imp/A)	8.14	8.30	8.46	8.62	8.61	8.77
Module Efficiency [%]	14.78	15.08	15.38	15.68	13.44	13.69
Power Tolerance	0/+5 W	0/+5 W	0/+5 W	0/+5 W	0/+5 W	0/+5 W
Temperature Coefficient of Isc (αIsc)	+0.05%/°C	+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	-0.34%/°C	-0.3055 %/°C	-0.3055 %/°C
Temperature Coefficient of Pmax (γPmp)	-0.42%/°C	-0.42%/°C	-0.42%/°C	-0.42%/°C	-0.3910 %/°C	-0.3910 %/°C
STC	Irradiance 1000W/m^2, Module Temperature 25 C, AM 1.5					

I-V CURVE





ENGINEERING DRAWING

The module is certified with Alumero Click 6.8 L-200 clamps

Approved for:

- 10000 Pa snow load
- 10000 Pa wind load

clamp area

clamp mounting area

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

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