




LAMINATION FOIL:

-  Black
-  White
-  Transparent

Why Glass/Glass technology?

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

Compared with standard modules, the same glass material resistance and heat dispersal is more durable in fluctuating temperatures and hot and humid climate zones, ensuring a 30 - 40 year lifespan.

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

Why Solar Edge?

- Up to 25% more energy
- Mitigates partial shading and manufacturing mismatch-loss
- Module level monitoring
- Module-level voltage shutdown for installer and firefighter safety

KEY FEATURES



30+ 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.



The possibility to **bond the PV modules** with adhesive material.



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



Complies to IEC 61215:2005, IEC 61730:2004 standard



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



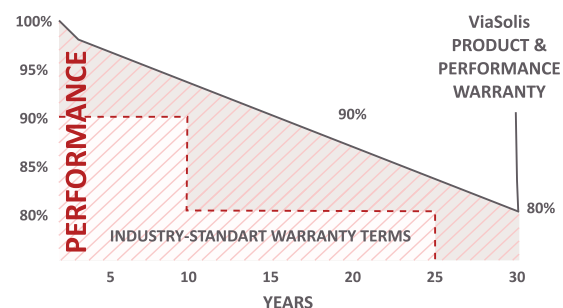
Possibility to adjust: dimensions, forms, colours and efficiencies for BIPV solutions.

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

- 30 years product warranty*
- 30 years performance warranty at 80 % output*
- 2 years all risk insurance, available for the following countries: Germany, Austria, Switzerland, Liechtenstein, Luxemburg, UK, France and North Italy



* SolarEdge warranty on optimizer and junction box provided for 25 years

MECHANICAL PARAMETERS

| | |
|---|--------------------|
| Cell (mm) | 156x156 |
| Weight (kg) | 28 |
| Dimensions (LxWxH) (mm) | 1673 x 991 x 7.5 |
| Cable Cross Section Size (mm ²) / Plugs | 6 / MC4 compatible |
| No. of Cells in the Module | 60 (10x6) |
| Junction Box | SolarEdge J-Box |
| Front / Back Glass (mm) | 3.2 / 3.2 |
| Packaging Configuration | 16 per pallet |

WORKING CONDITIONS

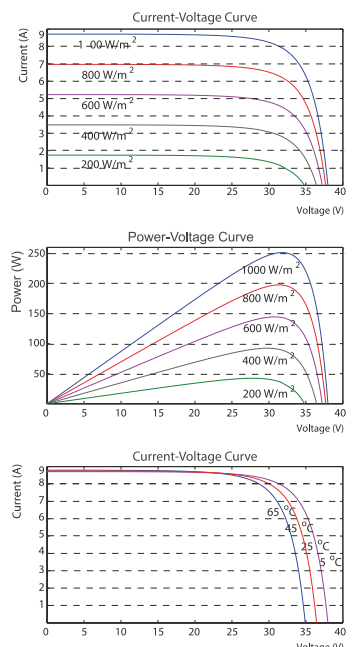
| | |
|--|-----------------|
| Maximum System Voltage | DC 1000V (EU) |
| Operating Temperature | -40 °C~+85°C |
| Maximum Current | 15A |
| Maximum Static Load, Front (wind / snow) | 2400Pa / 2400Pa |
| NOCT | 43,6°C |
| Safety Class | II |

ELECTRICAL PARAMETERS

| TYPE | ViaSolis OPTIMUS 60.P 250 | ViaSolis OPTIMUS 60.P 255 | ViaSolis OPTIMUS 60.P 260 | ViaSolis OPTIMUS 60.M 265 | ViaSolis OPTIMUS 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 (αIsc) | +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 Irradiance 1000W/m², Module Temperature 25°C, AM 1.5

I-V CURVE



String Lengths (computed automatically by SolarEdge Site Designer)

| Module Power | | 250 | 255 | 260 | 265 | 270 |
|---|--------|------------------------------------|-----|-----|-----|-----|
| MINIMUM string size with SolarEdge inverter | 1ph | | | 8 | | |
| | 3ph | | | 16 | | |
| | 3ph-MV | | | 18 | | |
| MAXIMUM string size with SolarEdge inverter | 1ph | 21 | 20 | 20 | 19 | 19 |
| | 3ph | 45 | 44 | 43 | 42 | 41 |
| | 3ph-MV | 50 | 50 | 49 | 48 | 47 |
| String size with Non-SolarEdge inverter | | According to inverter design 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 | A _{dc} |
| Maximum Output Current when connected to Non-SolarEdge Inverter | 10 | A _{dc} |
| 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

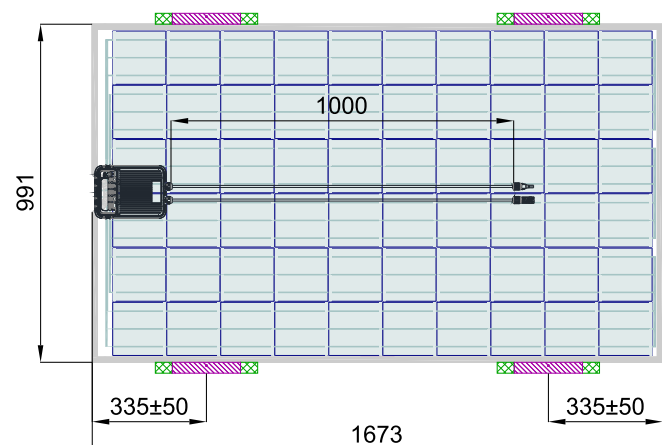
| | |
|------------------------|---|
| Fire Safety | VDE-AR-E 2100-712:2013-05 |
| PV Junction Box Safety | IEC62109-1 (class II safety, TUV-SUD), UL1741 (TUV-Rheinland & CSA) |
| PV Junction Box | En50548 (TUV-SUD), UL3730 (TUV-Rheinland & CSA) |

ENGINEERING DRAWING

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

- 2400 Pa wind load
- 2400 Pa snow load

-  clamp area
-  clamp mounting area



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