VIASOLIS
PV Glass Manufacturing & Architectural Energy

ViaSolis OPTIMUS 250-270 framed
Glass/Glass 60 cell module

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

Optimized by
solaredge

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 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.
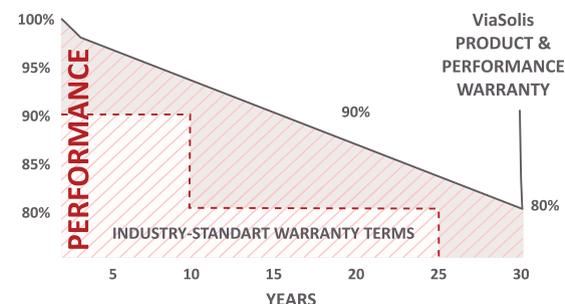
RELIABLE QUALITY

● 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

ViaSolis PRODUCT & PERFORMANCE WARRANTY

PERFORMANCE

INDUSTRY-STANDART WARRANTY TERMS

100% | 95% | 90% | 85% | 80%

90%

80%

5   10   15   20   25   30
YEARS

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MECHANICAL PARAMETERS

Cell (mm)	156x156
Weight (kg)	23.8
Dimensions (L×W×H) (mm)	1682 x 1000 x 41
Cable Cross Section Size (mm²) / Plugs	6 / MC4 compatible
No. of Cells in the Module	60 (10x6)
Junction Box	SolarEdge J-Box
Front / Back Glass (mm)	2.1 / 2.1
Packaging Configuration	16 per pallet

WORKING CONDITIONS

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

I-V CURVE

Current-Voltage Curve

Power-Voltage Curve

Current-Voltage Curve
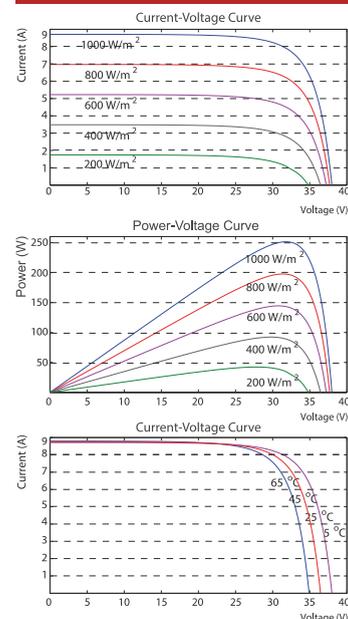
ELECTRICAL PARAMETERS

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%/℃	+0.05%/℃	+ 0.05%/℃	+0.0455%/℃	+0.0455%/℃
Temperature Coefficient of Voc (βVoc)	-0.34%/℃	-0.34%/℃	-0.34%/℃	-0.3055%/℃	-0.3055%/℃
Temperature Coefficient of Pmax (γPmp))	-0.42%/℃	-0.42%/℃	-0.42%/℃	-0.3910%/℃	-0.3910%/℃
STC	Irradiance 1000W/m2, Module Temperature 25°C, AM 1.5				

## 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	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 Complian

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

Note:
Dimensions are given in millimeters
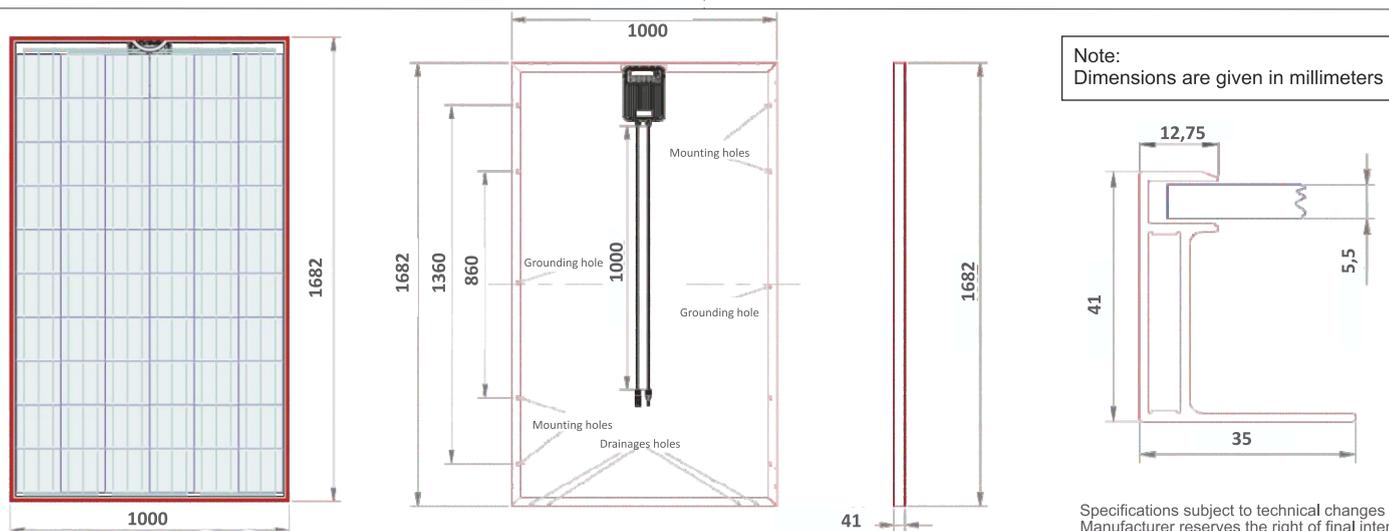
Specifications subject to technical changes and tests.
Manufacturer reserves the right of final interpretation.