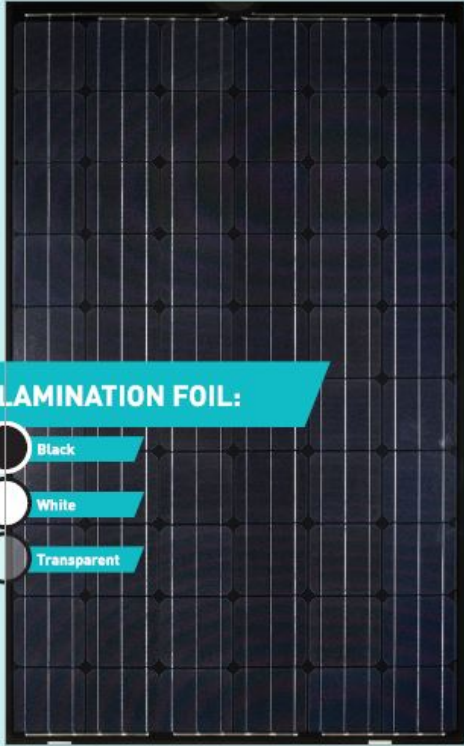




Solar Electric

Created for energy, designed for YOU

Available in choice of 12 x Colours



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 dispending is more durable in fluctuating temperatures, hot and humid climate zones, ensuring 30-40 years lifetime.

Unlike other G/G modules in the market, Solar Electric 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 Solar Electric cells and modules are manufactured using green energy – geothermal, solar and hydro power.

Glass/Glass Model No STKM - 72 - 320
320Wp Monocrystalline 72 Cell Module

durability, safety, efficiency.

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 dispending. 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.



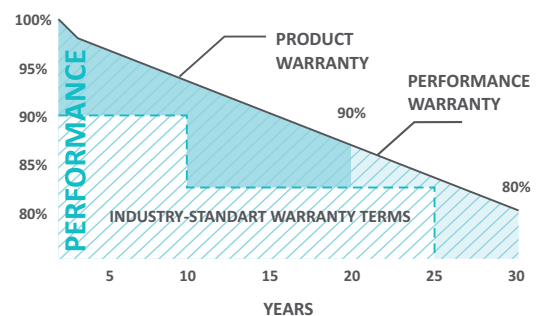
Customised choice. Range of dimensions, forms, colours and efficiency for BIPV solutions.

RELIABLE QUALITY

- Positive power tolerance 0-3%
- 100% double sorting ensures modules are defect free
- Fully automated production lines eliminates human mistakes
- Manufactured and assembled in EU (Vilnius, Lithuania)

MANUFACTURER WARRANTY

- 15 years product warranty
- 30 years performance warranty
- Minimum 90% output at 20 years
- Minimum 80% output after 30 Years





MECHANICAL PARAMETERS

Cell (mm)	Mono 156x156
Weight (kg)	23 (approx)
Dimensions (LxWxH) (mm)	1990 x 991 x 7,5
Cable Cross Section Size (mm ²) / Plugs	4 / MC4 compatible
No. of Cells in the Line	72 (12 x 6)
Junction Box	Huber+Suhner J-Box
Front / Back Glass (mm)	3 / 3
Packaging Configuration	23 per pallet

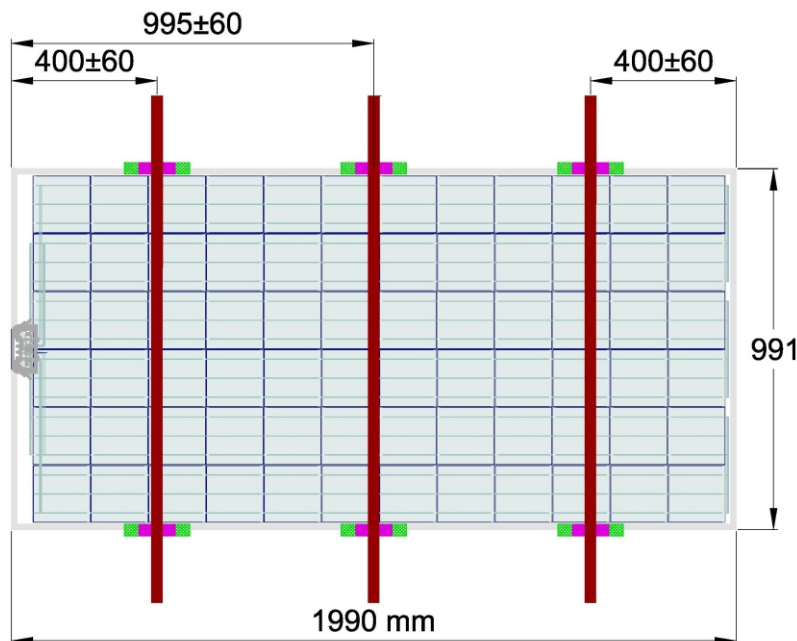
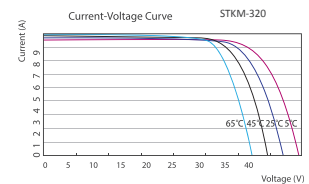
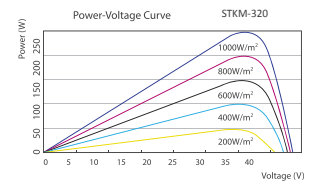
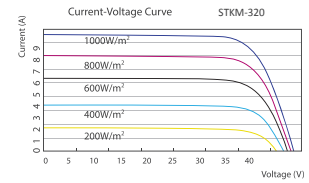
WORKING CONDITIONS

Maximum System Voltage	DC 1000V (TÜV)
Operating Temperature	-40 °C~+85°C
Maximum Reverse Current	15A
Maximum Static Load, Front (wind / snow)	2400Pa / 5400Pa
NOCT	43,6°C
Application Class	Class A

ELECTRICAL PARAMETERS

TYPE	STKM-72-320
Rated Maximum Power at STC (Wp)	320
Open Circuit Voltage (Voc/V)	45,48
Maximum Power Voltage (Vmp/V)	37,04
Short Circuit Current (Isc/A)	8,60
Maximum Power Current (Imp/A)	8,10
Module Efficiency [%]	18,20
Power Tolerance	0+3%
Temperature Coefficient of Isc (αIsc)	+0.05%/°C
Temperature Coefficient of Voc (βVoc)	-0.34%/°C
Temperature Coefficient of Pmax (γPmp)	-0.42%/°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 5.0 L-100 clamps.

Approved for:

- 2400 Pa snow load
- 5400 Pa wind load

clamp area
 clamp mounting area

