



Solar Electric

Created for energy, designed for YOU

Available in Choice of 12 x Colours

Glass/Glass Model No STKM - 60 - 280
280Wp Monocrystalline 60 cell module

Glass/Glass modules – advanced choice for those who look for 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.



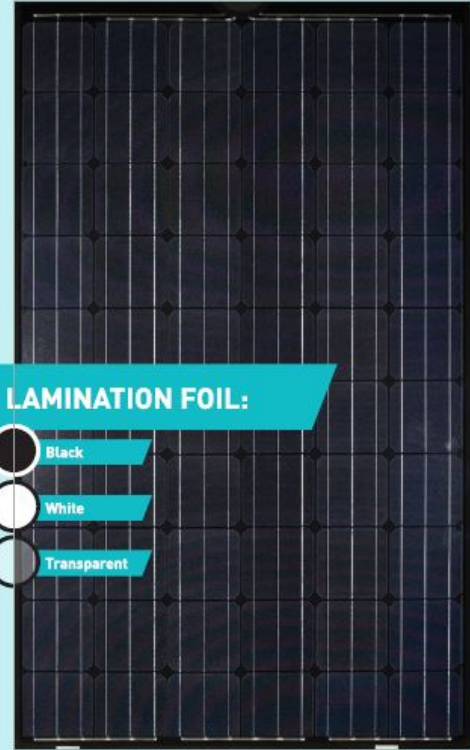
100% PID free cells. Potential induced degradation is eliminated at cell level using PVB lamination foil.



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.



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).

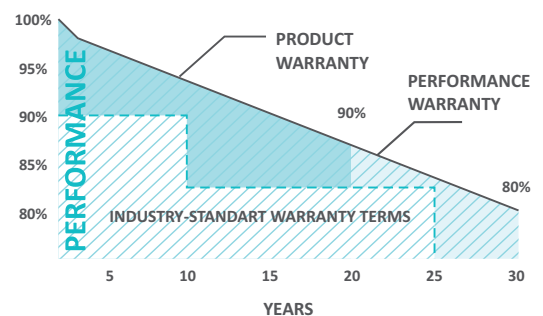
Both cells and modules are manufactured using green energy – geothermal, solar and hydro power.

RELIABLE QUALITY

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

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) | 20.5 (approx) |
| Dimensions (LxWxH) (mm) | 1673x991x5,4 |
| Cable Cross Section Size (mm ²) / Plugs | 6 / MC4 compatible |
| No. of Cells in the Line | 60 (10x6) |
| Junction Box | Huber+Suhner J-Box |
| Front / Back Glass (mm) | 2,1 / 2,1 |
| Packaging Configuration | 16 per pallet |

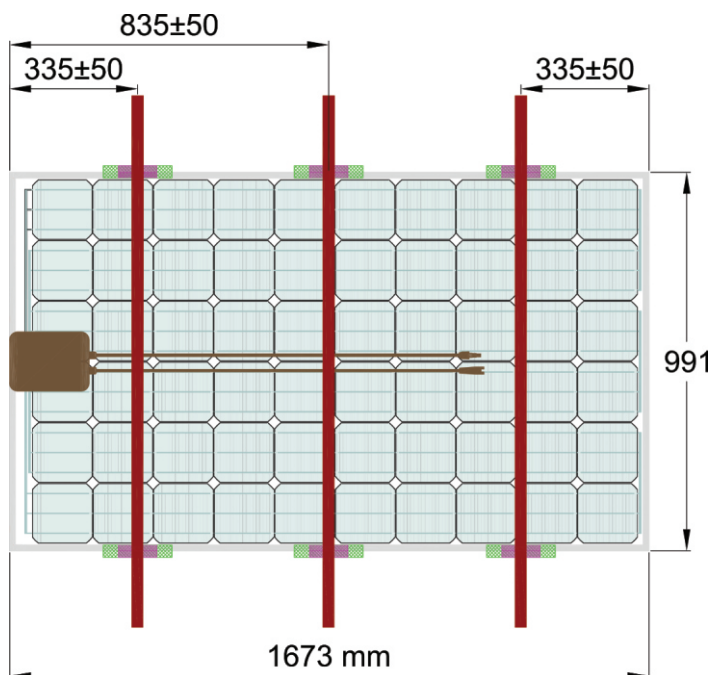
WORKING CONDITIONS

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

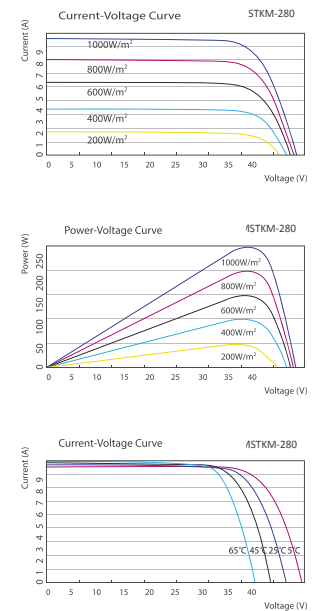
ELECTRICAL PARAMETERS

| TYPE | STKM-60-280 |
|--|-------------------|
| Rated Maximum Power at STC (Wp) | 280 |
| Open Circuit Voltage (Voc/V) | 38.80 |
| Maximum Power Voltage (Vmp/V) | 31.40 |
| Short Circuit Current (Isc/A) | 9.01 |
| Maximum Power Current (Imp/A) | 8.60 |
| 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 | |
| Fire safety | VDE-AR-E 2100-712 |

Produced according to IEC 61215:2005, IEC 61730: 2004 standard



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