systaic

EUROPE'S
SOLAR
SERVICE
GROUP

System technology for energy gainers

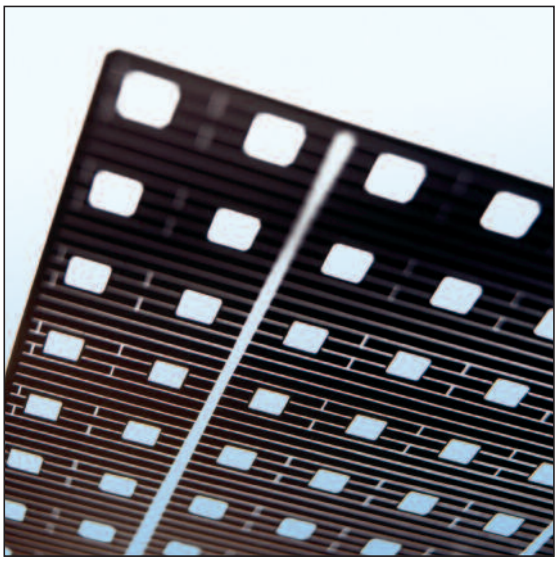
The SYSTAIC solar system

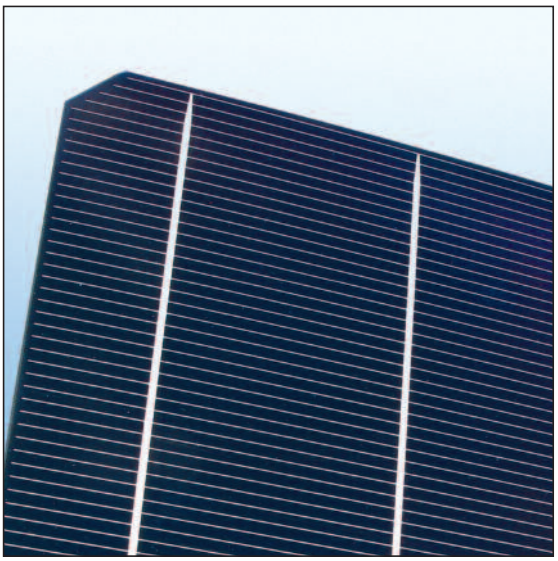
AESTHETICS & EFFECTIVENESS

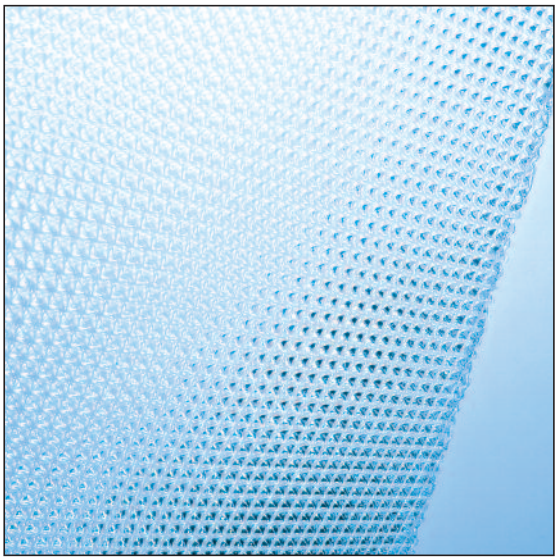
AMAZINGLY EFFECTIVE

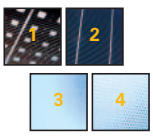
AESTHETICS & EFFECTIVENESS Are you aiming for significant reduction in energy costs for a building? Either as a home owner or a professional planner. As part of refurbishing or modernising, or new building projects, your emphasis is on using environmentally-friendly, unexhaustable solar energy in future. And you're not thinking of just any solution. You'd much rather use innovative system technology for your project. Groundbreaking and at the same time lucrative – beautiful to look at and highly effective. This system is just what you need. We at Europe's Solar Service Group can supply you with the SYSTAIC solar system, plus service & support unique in the industry.

- SIGNIFICANTLY IMPROVED ENERGY YIELD
- ALL-EMBRACING, CONSISTENT, TOTAL SOLUTION FOR ROOFS AND FACADES
- COMPATIBLE WITH ALL CELL TECHNOLOGY
- CAN BE USED AS A ROOF-INTEGRATED SYSTEM (CERTIFICATION FOR DEVELOPMENT IN PROCESS)
- MANY DIFFERENT SURFACE DESIGNS AND COLOURS
- INFINITELY SCALEABLE
- THERMAL RANGE CAN BE SUPPLEMENTED BY ADDITIONAL SOLAR ENERGY SAVERS USING AIR COLLECTORS









SEMI-TRANSPARENT

SOLAR CELL

1 The SYSTAIC solar system is compatible with all cell technology. The performance output and appearance are decisive factors for the unit.

TRANSPARENT

SOLAR CELL

2 All known cell types can be used, including polycrystalline and monocrystalline silicone, thin layer modules and back contact cells.

SMOOTH

GLASS FACE PLATE

3 Brilliant white, smooth glass, with strong non-reflective properties and a much higher energy transmission level than other materials on the market.

RIBBED

GLASS FACE PLATE

4 Alternative glass types for special visual effects. Impressive, strong non-reflective properties and high energy transmission level.

IDEAL COMBINATION OF TOP INDIVIDUAL COMPONENTS

DESIGN MARVEL — A new product in the world of photovoltaics. The SYSTAIC solar system has finally made it possible to have an all-embracing, consistent, total solution for roofs and facades. The SYSTAIC energy unit is used as the basic element. This is an internationally innovation compatible with all types of cell technology. These square units with their light, long-lasting polyurethane frames, are interlocked depending on the roof surface, without the need for cables, and make up the SYSTAIC energy field on the roof. This active energy component with integrated, transformer-free inverters can achieve a significantly improved energy yield compared to conventional products.

AESTHETICS MEETS EFFECTIVENESS — A product created from the symbiosis of photovoltaics and architecture. Easier to use. Better aesthetics. Many more finishes More effective energy yield.

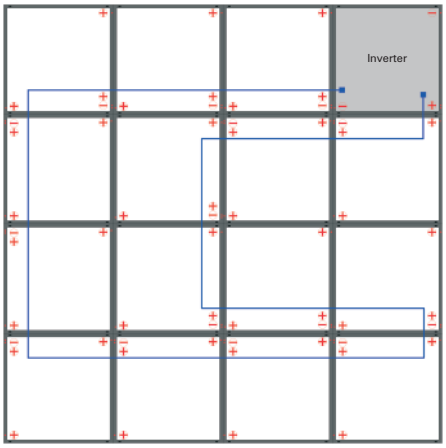
CLICK & CONNECT — Installation and connection technology ensures that no cables or screws are required for fitting SYSTAIC energy units onto universal cross rail system. Can be connected electrically and mechanically in a single step.

SENSE & SEND — Sensors in the polyurethane frame of each SYSTAIC energy unit perform remote monitoring of functions and yield. These sensors record and then transmit the operational status to our service centre.

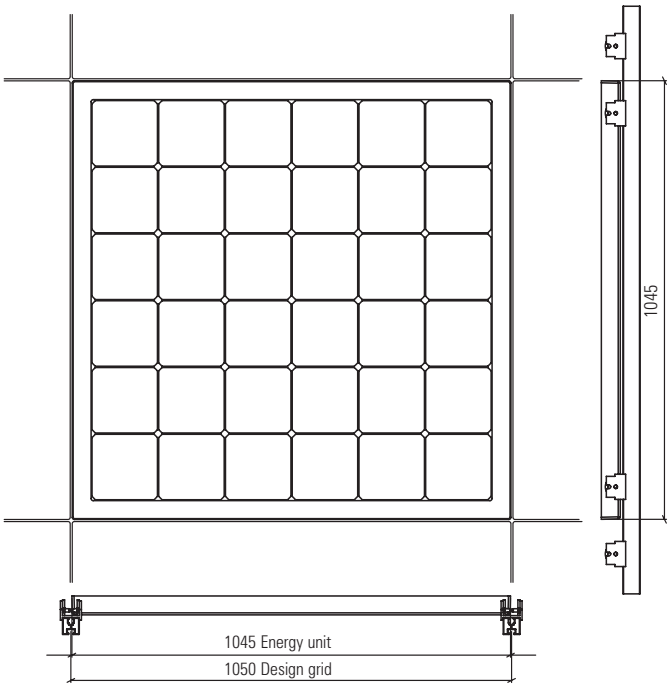
INVERTERS — Only top-quality products are integrated into the system. The transformer-free inverters operate at an efficiency of over 96%, and comply with CE and DIN standards.

SYSTEM ACCESSORIES — Single-piece casting, with accessories for eaves and verges for example, as well as dummy units for shaded areas.

TOTAL SUPPORT — Advice, planning, fitting and maintenance. Attractive financing models and a power yield in kilowatt hours (kWh) – guaranteed for 24 years!



Connection diagram for 15 energy units including inverter integrated in the energy field.



SPECIFICATIONS

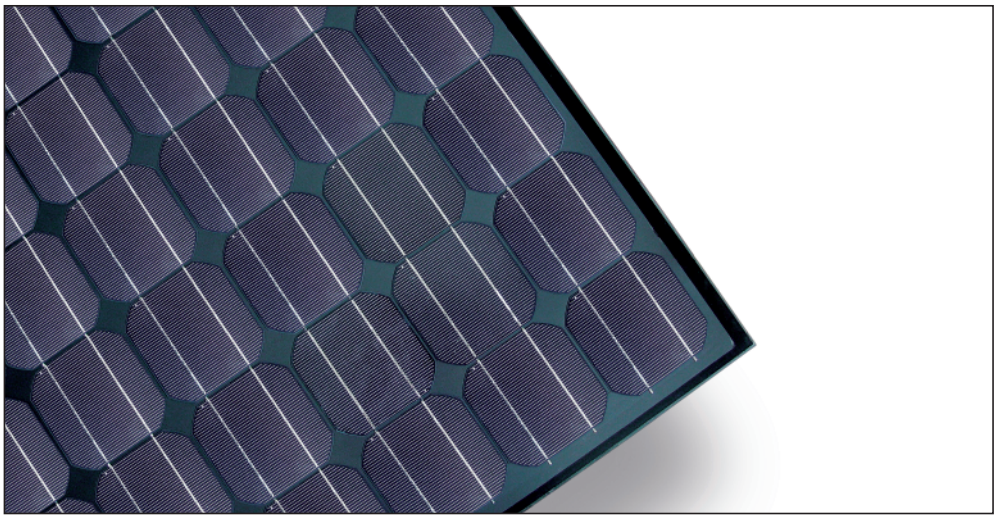
Energy unit	
36 monocrystalline cells	156 x 156 mm
Average nominal output P_{MPP}	140 Wp
Construction complies with IEC 61730-1 ("PV module safety qualification – Part 1: requirements for construction") taking into consideration the requirements of IEC 61215:2005 ("Crystalline silicon terrestrial PV modules – Design qualification and type approval").	
Inverter (transformer-free multi-string inverter)	
Maximum DC power (PDC, max)	5,300 W
Protection type complies with DIN EN 60529	IP65

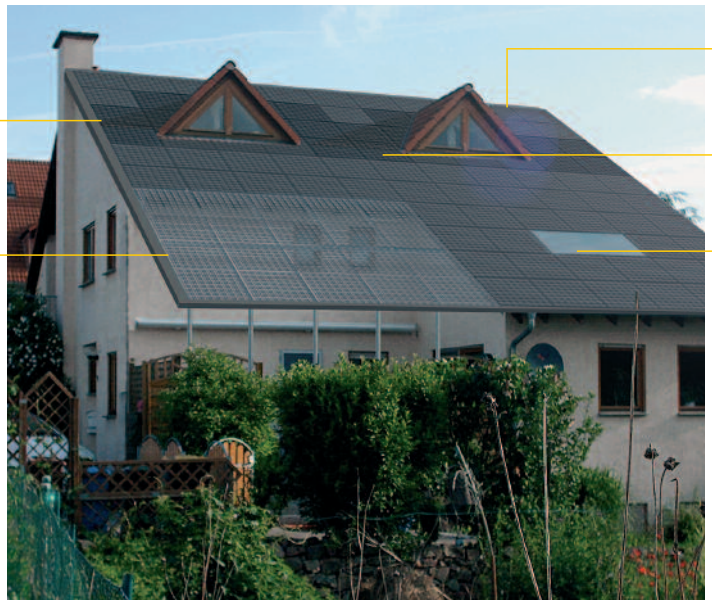
All information under STC
(Standard Test Conditions: 1,000 W/m², 25 °C, AM 1.5)

- UNIFORM GRID DIMENSIONS
- INDIVIDUAL UNITS CONNECTED WITHOUT CABLES
- ELECTRICAL AND MECHANICAL CONNECTION IN A SINGLE STEP (CLICK & CONNECT)
- NO FIXINGS ON THE FRONT FACE
- INTEGRATED ANALYSIS ELECTRONICS (SENSE & SEND)
- LIGHT, LONG-LASTING POLYURETHANE FRAME
- HARMONISED SYSTEM ARCHITECTURE
- COMPATIBLE WITH ALL CELL TECHNOLOGY

ALL-ROUND OPTICAL HARMONY

SYSTEM ACCESSORIES What you gain in appearance in your building is equalled by the gain in energy yield. A wide range of accessories for the SYSTAIC solar system ensures maximum use of space and optimal aesthetics. The large number of system components includes surround sections such as aluminium or stainless steel cover panels for eaves, ridges and verges. Extras such as dummy units are used to cover gaps caused by shaded areas resulting from roof extensions such as dormer windows or ventilation pipes. A special range of unique, integrated roof windows allows for additional, practical design options, creating all-round optical harmony.





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