

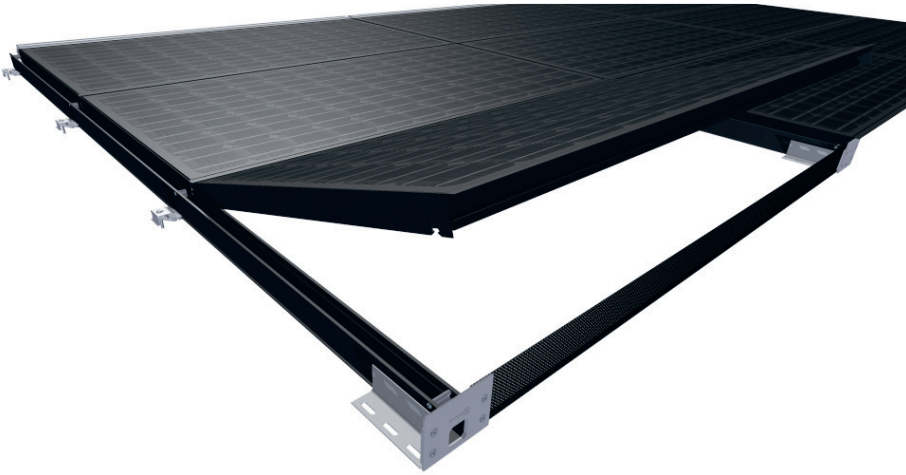
innovation in power

NICER

The easiest integrated roof installation system for photovoltaics.

- System with the highest performance
- The highest density
- Unbeatable prices
- Best-in-Class components
- Complete support for partners

NICER new integrated click energy roof

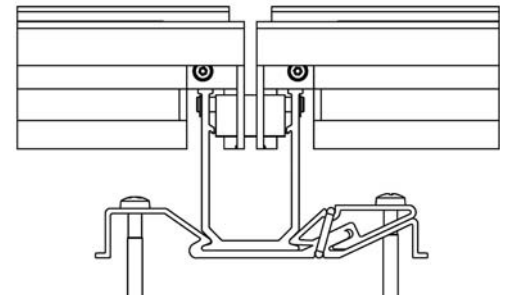


- Megasol high-performance modules meet the fastest installation system worldwide. The most dense integrated roof installation system can be installed on roofs with a slope **starting from 3°**.
- The floating modules offer an optimum back ventilation, thus guaranteeing high performances.
- Every module can be changed within the surface without the need to dismantle other modules.
- No overhanging frames = no dirt residues; this guarantees the highest performances even with low slopes.
- No need for tiles - simply installation on rafters or purlins (roof-support system is recommended).

The innovation

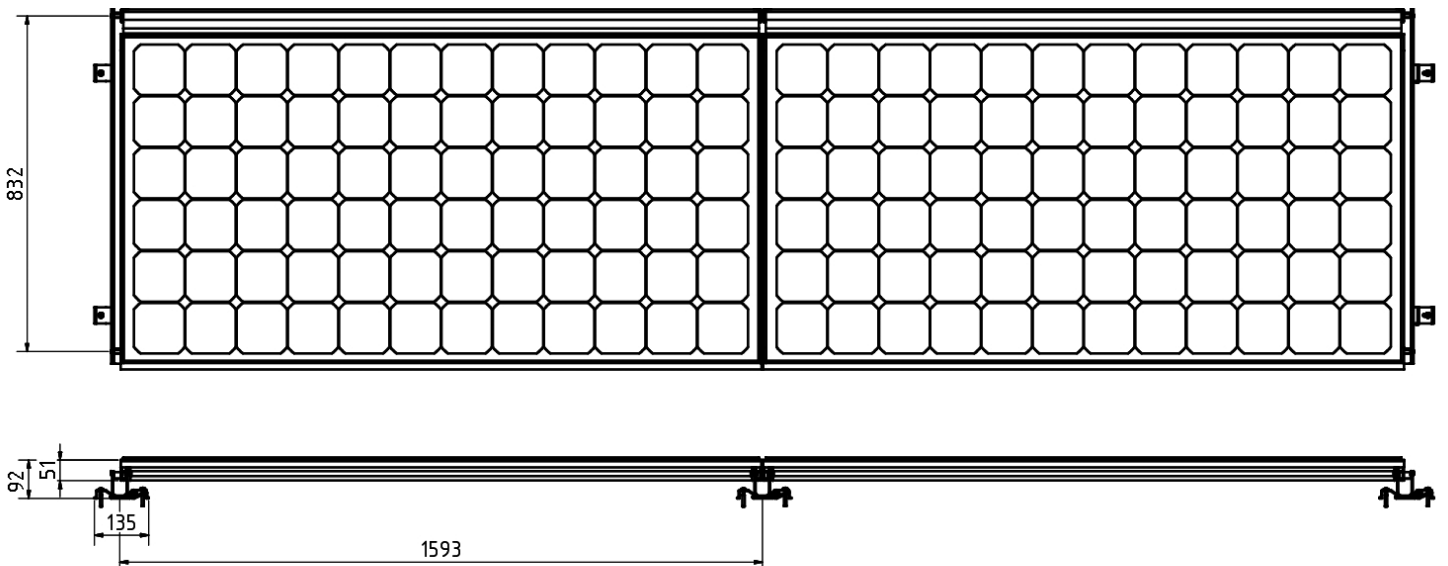
«fastest system in the world because of tool-free mounting assembly of the modules»

The system is composed of **two main components**: The solar modules and the vertical support rails which also serve as flumes. The system is particularly efficient for purlin roofs: Installing rails on purlins, latching the modules, done!



Frame section

The modules saves a lot of space thanks to its dimensions 832x1593 and can be mounted on every roof.



The installation – three steps to the solar roof

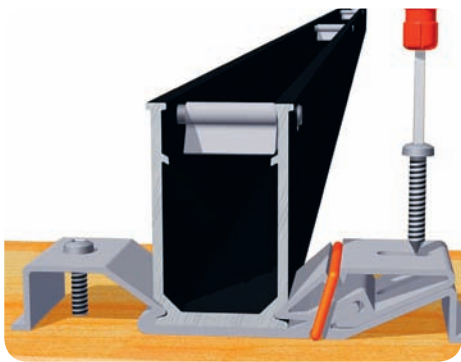
1 Installation of vertical rails

2 Snap in modules

3 Fixing of the roof terminals



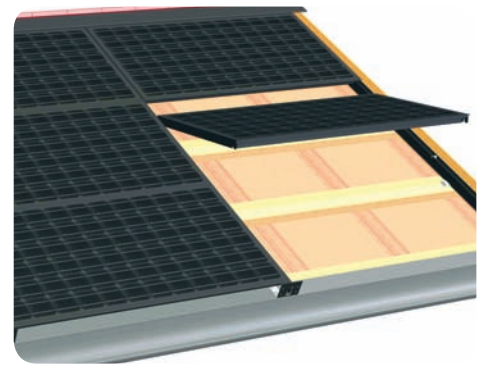
«Strongest system worldwide: resists strong winds and high-alpine snow loads of up to **8000N/m²**»



Installation of vertical rails



Detailview on module assembling



Tool-free module mounting

Product advantages

- Ammonium corrosion test according to IEC 61701 particularly for high loads in agriculture
- Anti-glare glass (for more performance of 2 – 3 %)
- Salt spray test according to IEC 61701
- Premium module for highest demands with particular aesthetic elegance
- Solar glass with Nano finish and auto-purification
- Based on 100% silicon; free of cadmium or other heavy metals
- 130 Qualitätskontrollschritte auf voll-automatischer Produktion
- Proven good diffuse lighting performance
- ISO9001 and TÜV certified quality
- Complete traceability of all raw materials



«Form the careful selection of raw materials over the production and up to the packaging and final shipping, Megasol is anxious to minimize use of material and energy and to utilize recyclable materials and renewable energies»

NICER – solar modules with high-performance level

Specifications	M190-72-b NICER	M200-72-b NICER
	1000W/m ² / (800W/m ²)	1000W/m ² / (800W/m ²)
Voc	44.5V / (41.8V)	
Vpm	36.5V / (33.2V)	
Isc	5.52A / (4.7A)	5.77A / (4.82A)
Ipm	5.21A / (4.39A)	5.48A / (4.62A)
Max. performance	190 Wp (146 Wp)	200 Wp (154 Wp)
Cell type	125x 125 mm, monokristallin	
Number of cells	72 Stück in Serie	
Applications	network and 24V island systems Max. system	
voltage	1000V	
Dimensions	1593 x 832 x 51 mm	
Weight	17 kg	
Connection box (IP65)	4mm ² -solar cable with MC4 plugs	
Glass	annealed and hardened solar glass	
Performance tolerance	-0% / +5%	-3% / +3%
Cell/module efficiency level	17.7% / 14.9%	18.5% / 15.7%
Temperature coefficient	VOC: -0.34%/°C; ISC: +0.09%/°C, Power: -0.37%/°C	
Performance guarantee	more than 80% for over 25 years and more than 90% for over 10 years	
Protection class	Class A, SKII	
Max. Return current	20A	
Recommended string protection	8A, Max. 15A	

May 2012. Subject to technical modifications.

Only the most efficient solar cells are used for M190-72-b NICER/M200-72-bNICER.

The cell efficiency level is 18.5%
Even with low lighting, the high-performance solar modules produces power effectively.

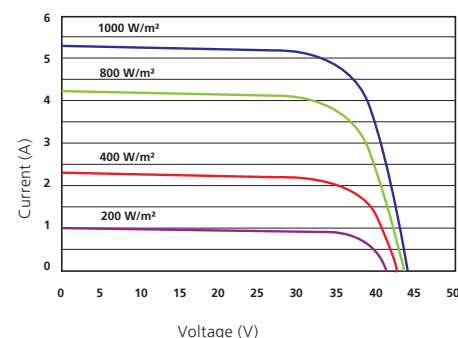


IEC 61215



- Qualified IEC 61215
- Safety tested, IEC 61730
- Periodic Inspection

Performance curve for M190-72-b-NICER



The national network for solar energy

Become partner of the leading solar network in Switzerland!

Megasol Energie AG

Bützbergstrasse 2
CH-4912 Aarwangen
Tel. +41 62 919 90 90
Fax +41 62 919 90 99

www.megasol.ch
info@megasol.ch



Megasol partner

