



MODULE FRAME = MOUNTING ASSEMBLY EASYIN GLASS-GLASS MODULES

Premium glass-glass-modules

- Durable and innovative glass-glass composite
- Weatherproof roofing replacing roof tiles
- Rear ventilation for high yields
- Resistant and resilient

Fast and simple installation

- No additional mounting components required
- Fastened directly to the roof battens
- Limited number of separate parts
- Universal roof-module connection profiles included
- Metal framing components for tile connection optionally available

FullCoverage

- Insurance protecting against all damage
- Compensates for lost earnings
- Makes up the shortfall if yields fall below minimum
- Available within the EU



SOLARWATT Service



FullCoverage
included (up to 1000 kWp*)



Simple return policy
as per „Delivery Terms for SOLARWATT Solar Modules“



Product Warranty
as per „Special Warranty Conditions for SOLARWATT Solar Modules“



Performance Warranty
on 87 % of nominal power as per „Warranty Conditions for SOLARWATT Solar Modules“



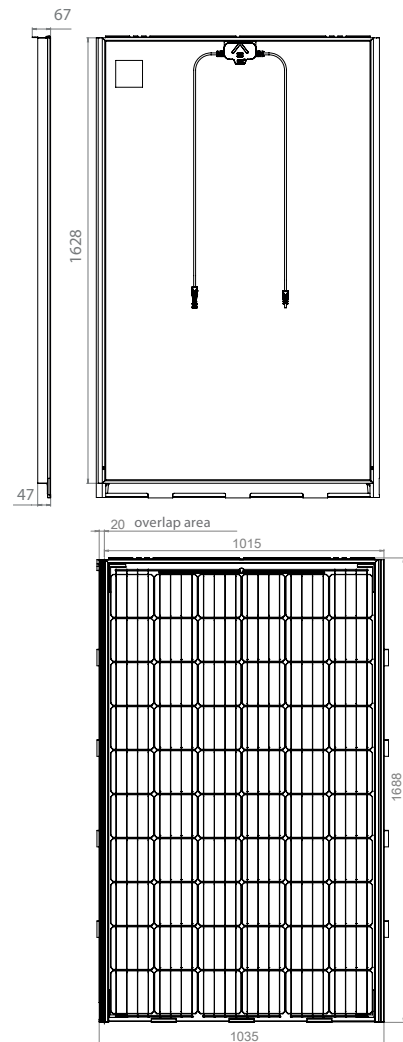
Guaranty of origin
Quality Made in Germany



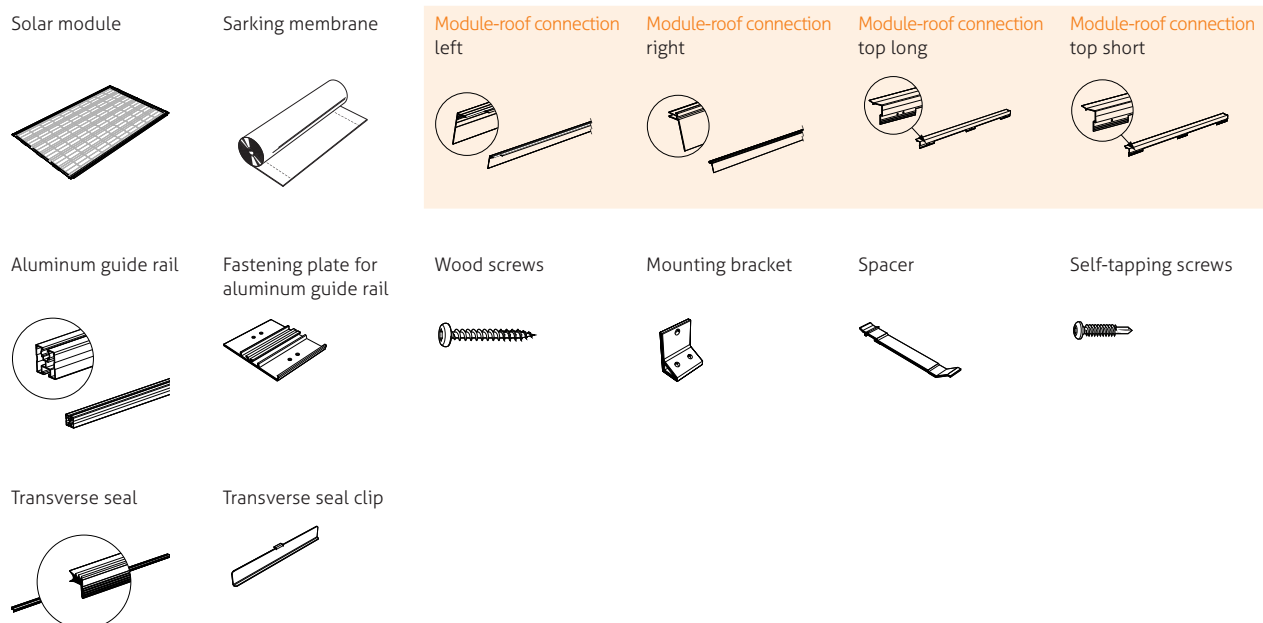
* in Italy up to 50 kWp

INFORMATION ABOUT THE MODULE

Module technology	glass-glass laminate; aluminum frame, black anodized
Covering material	2 mm tempered solar glass with anti-reflective finish
Encapsulation	EVA film - solar cells - EVA film, transparent
Backing material	2 mm hardened solar glass
Solar cells	60 monocrystalline solar cells
Cell dimensions	156 x 156 mm
L x W	Module dimensions (total length): 1688 x 1035 mm Cover dimensions: 1642 x 1015 mm
Height	Height of side w/out junction box: 47 mm Height of side w/junction box: 67 mm
Weight	ca. 24 kg
Connection technology	2 x 1.0 m/4 mm ² cables, Hirschmann HC-4 connectors
Bypass diodes	3
Application class	A (nach IEC 61730)
Max. system voltage	1000 V
Nominal Power	300 and 205 Wp
Mechanical Ratings as per IEC 61215	Suction load up to 2400 Pa Applied load up to 5400 Pa (uplift resistance in accordance with EN 14437) (Wind speed 130 km/h with safety factor 3) Please refer to the specifications in the installation instructions
Qualifications	IEC 61215 IEC 61730 (including Protection Class II)
Hail Resistance	Tested with simulated hailstones (Ø 25 mm, at ~83 km/h)
Fire Resistance Test	DIN CEN/TS 1187
Application site	In upright position as roof integration in pitched roofs on buildings up to 18 m height; 22° - 65° roof pitch; 16° minimum roof pitch with usage of a water-tight sub-roof according to the guidelines of the local construction regulations
System Components	Solar modules with special frame, seals, wind suction retainers, special screws, sarking membrane, aluminum guide rail and bearing



SYSTEM COMPONENTS



MOUNTING

Sarking membrane

The sarking membrane is laid free of crimps and wrinkles parallel to the eaves and fastened to the rafters or the roof boards.

Aluminium guide rail

One aluminum rail is installed for each module row for dimensionally stable mounting and for simple grounding of the solar modules.

Placing the modules

The modules with the upper module frame can now be hooked into the aluminum guide rail and pushed together laterally with a tongue-and-groove connection. They are

mounted with suction anchors screwed directly to the module and the roof battens.

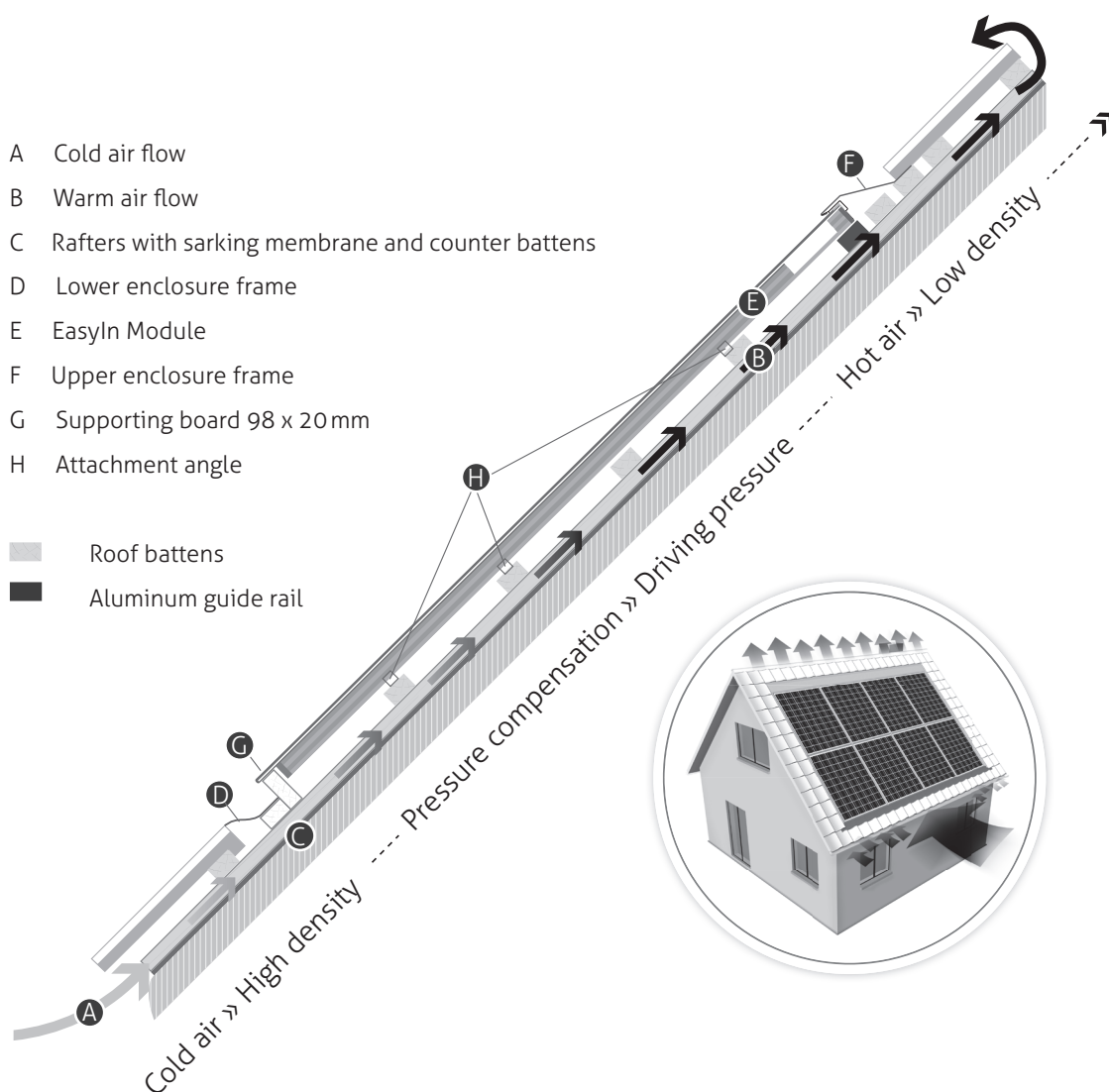
Module-roof connection

The final integration of the module field in the roof is carried out by universal module-roof connection profiles. The result is a weatherproof, rainproof and well ventilated roof covering.

Roofing frame (flashing)

The final integration takes place with the tinplate. Adapted to a large number of roof tile models, SOLARWATT optionally offers a color and geometrically optimally adjusted tinplate set.

TECHNICAL DETAILS FOR MOUNTING AND REAR VENTILATION



INFORMATION ABOUT THE ROOFING FRAME (FLASHING)

TECHNICAL DATA

Materials/Color	Aluminum/black
Flashing technology	Crimped metal
Joint seal technology	UV and fire proof prefab soft foam sealing, bitumen bonding
Temperature requirements	Bitumen bonding should not be installed at less than 5° C
Ambient temperature range	-40°C to +45°C

REQUIREMENTS OF THE ROOF TILES

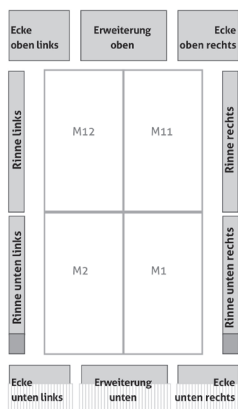
Max. tile thickness	contoured tiles with max. 50 mm thickness above roof batton
Covering length	Cover length and width must be adaptable for varying plant sizes, a nominal covering length of 330 mm is recommended
Covering width	
Recommended tile styles*	e.g. Topas 13, Frankfurter Pfanne, Domino, Cantus, Z10 *depending on the individual roof layout

REQUIREMENTS FOR MODULE AREA

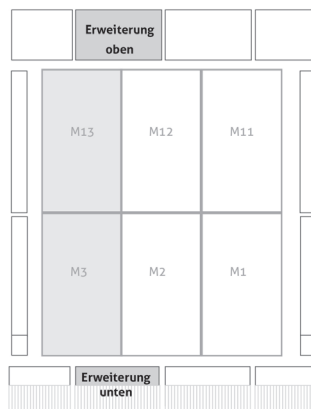
Shape of the installation	Square or rectangular
Openings within the installation	Not supported
Installation size	Unlimited number of rows and columns
Installation edges	Roof tiles on all 4 sides

REQUIREMENTS FOR ROOF

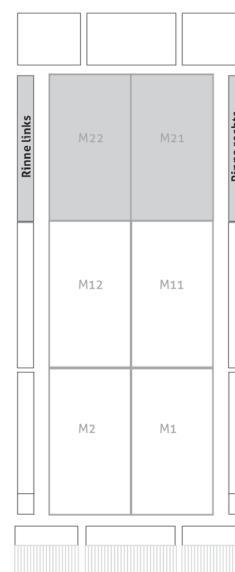
Roof pitch	22° to 29° / 30° to 65°
Roof battens	3 additional roof battens necessary above modules to secure the installation
Sarking membrane	see EasyIn Installation Manual
Roof battens	According to German roofing standards



Basic set for 2 x 2 modules



Horizontal extension set for an extra column



Vertical extension set for an extra row

Any questions?

Your account manager or our Customer Service team will be happy to help.

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