

Conergy mounting systems

Solar modules quickly and securely installed





Innovative QuickStone technology, short base rails, convenient connectors, telescopic end pieces and preassembled components – we've made it easy for you to install PV mounting systems.

From choosing the correct inverter to high-performance solar modules, everything counts. One component is particularly important: the correct mounting system. It secures the valuable solar modules in wind and weather. And this has a direct influence on the longevity of the system.

More convenient installation. For systems that pay off.

Conergy mounting systems – maximum convenience for straightforward, secure and rapid assembly. Largely preassembled and prefabricated frames, flexible systems and innovative details. All this facilitates work in real-world conditions, with just one goal – to reduce installation costs – for systems that pay off.

Both installers and system operators alike rely on triedand-tested Conergy quality. As one of the leading suppliers of solar mounting systems, we know what we're talking about – Conergy mounting systems are among the topselling photovoltaics mounting systems worldwide.

More safety. For your safety.

Conergy is focused on safety. This is why we offer convenient planning software exclusive to Conergy for all our mounting systems, which our customers can use to design the frame and to generate an individual structural analysis, based upon local building standards, and snow and wind loads. This ensures that the installer and the end customer are always on the safe side.

This safety package is complemented by our 10-year product warranty – because we believe in the quality of our own products.







At a glance - the advantages offered by all Conergy mounting systems

Simple planning and ordering:

- Software-supported planning all the way up to the completed parts list
- Optimised stock-keeping thanks to the use of cross-product, standardised components

More convenient installation:

For rapid and easy installation

- Preassembled and preconfigured components wherever possible
- Few components and short rails, making them easy to handle
- Only requires the use of one or two tools at the most

Maximum safety:

Durability and reliability make Conergy mounting systems special.

- Individual stability and structural analyses on the basis of local regulations and standards
- 10-year product warranty in accordance with the warranty conditions
- Optional support provided by our service team
- High-quality materials
- Certified manufacturing processes in accordance with ISO 9001



The Conergy solar system:

High-quality solar energy systems "Made by Conergy".

Conergy is a pioneer in the solar industry and, as a global player, the world's only provider of solar system solutions that are manufactured entirely in-house.

The high quality level of Conergy photovoltaic systems is verified in regular quality control checks. Photovoltaic systems made by Conergy have already proven themselves thousands of times in practice and are used around the world under the most diverse conditions.

We invest this experience in the day-to-day development of our systems. This results in photovoltaic systems that have the best possible yield, an extremely long service life and low maintenance costs.



Conergy pitched roof solutions – on-roof

On-roof mounting is the most common form of photovoltaics installation, and Conergy SunTop is one of the most frequently used mounting systems. It's nice to see quality come out on top.



Conergy SunTop: rapid and easy installation, high flexibility, long service life

Conergy SunTop is the system of choice for mounting on pitched roofs, which is achieved with ease; the system requires no customisation, is quick to fit and compatible with different module types. Conergy SunTop makes many things possible – it can be used universally and on any type of roofing.

The technology behind this allows the rail length to be adjusted thanks to innovative telescopic sections, thus avoiding the need for custom cutting. Connectors enable the use of short rails, and module installation is lightning-fast, with the QuickStone module fasteners.

A welcome feature for the system operator

The Conergy SunTop comes with a mounting system which is durable, and offers high levels of safety even in adverse weather conditions. It also ensures that the visual impression of your property is preserved.



Conergy SunTops QuickStone technology – a patent of Conergy

Quick and easy installation:

- Time savings from the high level of preassembled components
- Time savings thanks to an extremely accurate design without requiring custom cutting
- Only a single tool is necessary to fit the Conergy SunTop to the roof
- Patented QuickStone technology
- Easy to access all components and connections

Maximum flexibility:

- | Fits on any type of roofing with a roof pitch of up to 60°
- Compatible with virtually all module types and installation orientations

- Use of high-quality materials
- High corrosion resistance ensures maximum service life
- Individual stability and structural analyses in accordance with local regulations and standards



Similar to our tried-and-tested SunTop on-roof system, the Conergy SunTop Trapez is designed for installation parallel to the roof. The rails can be attached to the roof in no time. As opposed to mounting systems screwed into the roof from above, the SunTop Trapez uses intelligent brackets attached to the side of the raised bead on the trapezoidal sheeting, and the rails are only held in place by being hooked into the bracket. This allows a thin trapezoidal panel to accommodate appreciably higher loads and unevenness in the roof to be easily compensated for. Depending on the roof covering, it is not necessary to use every raised bead to attach the frame, which saves time on installation. In addition, with a mere five components, the system is designed for fast and easy installation.

Maximum flexibility:

- Suitable for trapezoidal roofs with a bead height in excess of 20 mm*
- Lateral attachment of the trapezoidal bracket to the raised bead, increasing load capacity and making it better for use on critical roofs
- For frameless and framed modules

Rapid and secure installation:

- Minimal material and tool requirements
- Time savings from the high level of preassembly
- Rail profiles attached by merely inserting and twisting the bracket in the rail
- Depending on the roof covering, it is not necessary to use every raised bead to attach the frame
- Height-adjustment mechanism to compensate for unevenness in the roof of up to 15 mm

- Use of corrosion-resistant materials for maximum service life
- Individual structural analyses supplied by Conergy software

^{*} If the height of the raised bead is less than 20 mm, alternatively a bracket can be used which is screwed into the trapezoidal sheeting from above.

Conergy pitched roof solutions – integrated into the roof

What is the best thing about a photovoltaic system? The rate of return? The appearance? Preferably both! More and more builders and landlords are looking to have their solar energy system integrated into the pitched roof.



Roof-integrated solar energy systems replace the conventional roofing tiles and fit in with the aesthetics of the roof.

Conergy SolarRoof: makes the module into a watertight roof skin

This system allows frameless (SolarRoof LM) or framed (SolarRoof FM) solar modules to be reliably integrated flush with the roof skin – on a range of different roofing types. This method of fastening modules on pitched roofs is not only completely satisfying aesthetically, it has also proved itself in a variety of practical applications.

The Conergy SolarRoof in-roof system is mounted on top of the existing roof battens and replaces the usual roof cladding.

Simple and convenient installation:

- | Patented click-in rail system replaces time-consuming screws
- Short rails make for easier handling no component is longer than two metres
- Modular concept

Maximum safety:

- Reliably watertight without the need for additional roof substructure
- High corrosion resistance

High level of flexibility:

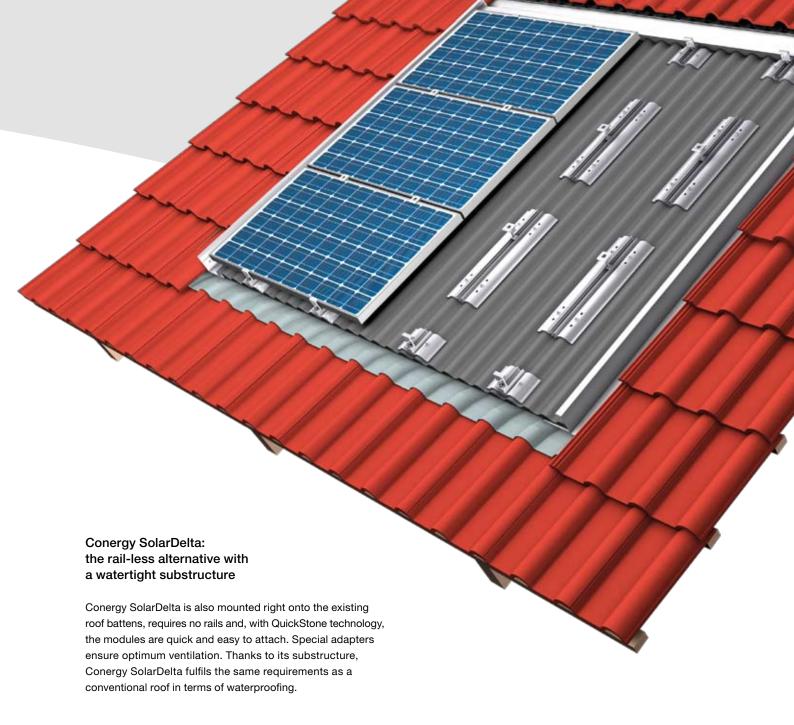
- For portrait or landscape mounting
- Can be used with inclination angles from as low as 16°

Visually appealing:

- Flush with the roof
- No gaps between modules

System operators can rely on the following for all roof-integrated Conergy pitched roof solutions:

Tried-and-tested materials and proven technology ensure that the roof is waterproof. Integration into the roof skin satisfies high aesthetic requirements.





Convenient installation:

- Time savings from the high level of preassembled components
- Rapid and secure installation thanks to QuickStone technology
- Innovative technology the first photovoltaic mounting system without continuous rails

- High corrosion resistance enables maximum service life
- Reliable waterproofing thanks to additional roof substructure



Conergy flat roof solutions

Flat roofs are something special for us – because they cry out for a photovoltaic system. That's why our range also contains frames especially for this type of roof.

Conergy SolarFamulus: quick to install in series

The Conergy SolarFamulus mounting system was developed especially for elevating solar modules on flat roofs. It is ideal for on-roof use and can be attached safely and securely using base brackets or ground rails.

The system also performs impressively when it comes to efficiency; Conergy SolarFamulus can be easily folded, which means it is convenient to transport and saves space in storage. This optimises transport costs and brings financial and practical benefits during installation.

A welcome feature for the system operator:

Optimum system yield is ensured. This is because the tilt angle of the Conergy SolarFamulus can be adjusted (20°, 25° or 30°). Just a few movements are sufficient to set the ideal tilt angle.

Convenient installation:

- | Time savings from the high level of preassembled components
- Easy to fold, which makes transport easy, and saves space in storage

- | Individual stability and structural analyses in accordance with local regulations and standards
- | High corrosion resistance



Conergy SolarFamulus Air

From aircraft engineer to frame designer – when it came to the development of our new Conergy SolarFamulus Air flat roof framework, we put an aerodynamicist in charge. The result was a mounting system which does without roof penetration and manages with only minimal ballast. This means you can now fit practically any commercial film or bitumen roof with a photovoltaic system.

The aerodynamic design of the Conergy SolarFamulus Air is such that the airflow creates a vacuum, which holds the frame down without it being screwed to the roof. The principle it uses is similar to a wing; wind baffles

significantly reduce the forces acting on the frame. Ballast is only required close to the edge of the roof.

In addition, the Conergy SolarFamulus Air is one of the fastest flat-roof systems on the market to install.



Maximum flexibility:

- For lightweight roofs
- Only requires little ballast at the edge of the roof
- No roof penetration, making it also suitable for film roofs
- | Flat tilt angle of 15°

Rapid and secure installation:

- Minimal material and tool requirements
- Time savings from the maximum level of preassembly

- Use of corrosion-resistant materials for maximum service life
- Individual structural analysis and design by Conergy



Conergy outdoor frames

When conducting installation work in open areas, every manoeuvre counts. Anyone striving for quick and safe installation should opt for simple and safe technology: Ours!

Conergy SolarLinea Single: the fastest outdoor frame on the market

The Conergy SolarLinea Single is one of the most cost-effective and quick-to-install mounting systems on the market. It requires no foundation, but instead stands securely on driven piles. The Conergy SolarLinea Single is able to compensate for a gradient of up to 10°, thanks to the flexibility of its base rails and connectors. This creates a photovoltaic array which is parallel to the ground without requiring expensive ground-levelling procedures.

Installation of the modules also takes no time, thanks to the QuickStone module fasteners and all at a convenient working height.



- | Time savings from the high level of preassembled components
- | Minimal use of tools required
- No cutting to size or drilling required
- Installation performed at working height
- Can be installed without moving
- Adjusts to uneven terrain

- | Tested stability and statics in accordance with local regulations and standards
 - High corrosion resistance



Conergy SolarLinea Double: the flexible solution

The SolarLinea Double can be deployed whatever the nature of the terrain. Excellent stability is achieved either with foundation posts, a foundation or with earth screws. A new height-adjustment mechanism allows the module array to be levelled quickly. Innovative Conergy fastener technology gives you a choice between QuickStone fasteners and clamp brackets. Up to two rows of modules can be mounted in a portrait orientation, or five rows in a landscape orientation. This means maximum utilisation of space in a short installation time.



Conergy SolarGiant: size matters

As an alternative to the Conergy SolarLinea Double, we offer the tried-and-tested Conergy SolarGiant. This foundation-based openarea mounting system offers up to 45 m² of installable module area per unit, while keeping installation costs low.

Convenient installation:

- Large module area mounted quickly and securely!
- Time and cost savings thanks to the high level of preassembly
- Minimal use of tools required



The Conergy open area mounting system: a double win for the environment.

As the lower edge of the module is 1 m above the ground, the terrain can be easily cultivated and maintained, e.g. sheep or goats can use the ground area as grazing land.

OUR WORLD IS FULL OF ENERGY.

CONERGY

Conergy AG
Anckelmannsplatz 1
20537 Hamburg
Germany
info@conergy.de

Available at:

Conergy_ mountingsystems_SF_ENG_2011-06-01

2011@Conergy

Subject to technical modifications without notice

www.conergy.com

oxdot