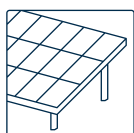


Solar carports for large areas



The Voltwing ECO Line
Models
Installation Options
Installation



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Efficiency with vision

Even after 70 years of company history, MEISER remains close to the principles that made the company strong: working reliably, thinking long term, taking responsibility and maintaining direct contact with customers. Tradition is not about looking back, but it does form the basis for the further development that extends far beyond the company's headquarters in Saarland.

Today, around 4,000 employees work for MEISER, including more than 2,800 in Germany. The two main production sites in Saarland and Saxony form the company's industrial foundation. They are complemented by production facilities in Dubai, Hungary, France, Belgium, Egypt, Brazil, Morocco, Romania, the Czech Republic, the US, Mexico and Turkey. In addition, further branches connect us with all major markets.

This creates a combination that defines MEISER: international capability and personal support on site. Customers benefit from short distances, direct communication and an understanding of regional requirements – backed by the experience of a company that has been active in different markets for decades and is broadly positioned.

As a steel-processing company, MEISER is active in the fields of gratings, sheet metal profiles, GRP, slit strip and galvanising. Further business areas, such as road safety, expanded metal, viticulture products and mounting systems for photovoltaic installations as well as scaffolding and sliding fittings, expand the portfolio and show how versatile the company's expertise can be.



For us, an important quality factor lies in our own value creation. With our own galvanising plants, slitting facilities and cold rolling mills, MEISER can control and coordinate all the central processes itself. This creates reliability – from planning through to the finished product. Modern production technology, a high-performance machinery base and committed employees provide the foundation for stable processes and economical solutions.

Despite all the achieved growth, the focus on the customer remains decisive. For MEISER, progress means not only new technology or greater capacities, but, above all, better solutions developed through direct exchange. Many exceptional projects have emerged from this collaboration. They show what becomes possible when experience, proximity and trust come together.

We combine 70 years of company history with international strength and personal service. Customers can rely on this, today and in the future. MEISER – built for generations.



MEISER

Our business divisions are synonymous with leading solutions in steel processing.



From the initial concept to the finished product, we support you with our expertise and innovation in steel. We manufacture, finish and deliver with clearly defined responsibilities. We operate cost-effectively and responsibly. With strong regional roots and an international presence, we provide planning certainty for your projects – from the initial consultation through to final acceptance.



Grating Solutions

Customised solutions for complex tasks

meiser.de/en/solutions-applications/grating-solutions



Road Safety

Well-thought-out solutions for the most stringent safety requirements

meiser.de/en/solutions-applications/road-safety



Solar Systems

Innovative mounting technology for the energy of tomorrow

meiser.de/en/solutions-applications/solar-systems



Agricultural Solutions

Genuine expertise for growing demands

meiser.de/en/solutions-applications/agricultural-solutions



Expanded Metal

Custom-made expanded metal designs at their best

meiser.de/en/solutions/expanded-metal



Coating Solutions

Precision coatings for reliable corrosion protection

meiser.de/en/solutions-applications/coating-solutions



Other Solutions

Versatile solutions for specific challenges

meiser.de/en/solutions-applications/other-solutions



MEISER Solar Solutions

The award-winning Salzburg-based company Anywhere.Solar Parking has become Meiser Solar Solutions GmbH – the MEISER Group's innovation and engineering hub for PV carports for the dual use of existing space. State-of-the-art development processes, clear design language and a consistent focus on efficiency

characterise our solutions. The result: the modular VOLTWING system – series-produced architecture that also offers the flexibility of project-specific configurations. The VOLTWING ECO-Line continues this principle: maximum scalability, easy to install and economical.

Made in Austria & Germany.

The best of both worlds – now under one roof

The existing cooperation has grown into a single entity:

Meiser Solar Solutions GmbH stands for product excellence, design and engineering.

Meiser Solar GmbH contributes production excellence, industrial vertical integration and

global delivery capabilities – and has been expanded to include the PV carport product line.

Together, we are accelerating the energy transition with systems that are visible, attractive and highly efficient – from ground-mounted systems to modular carport solutions for car parks and charging stations.

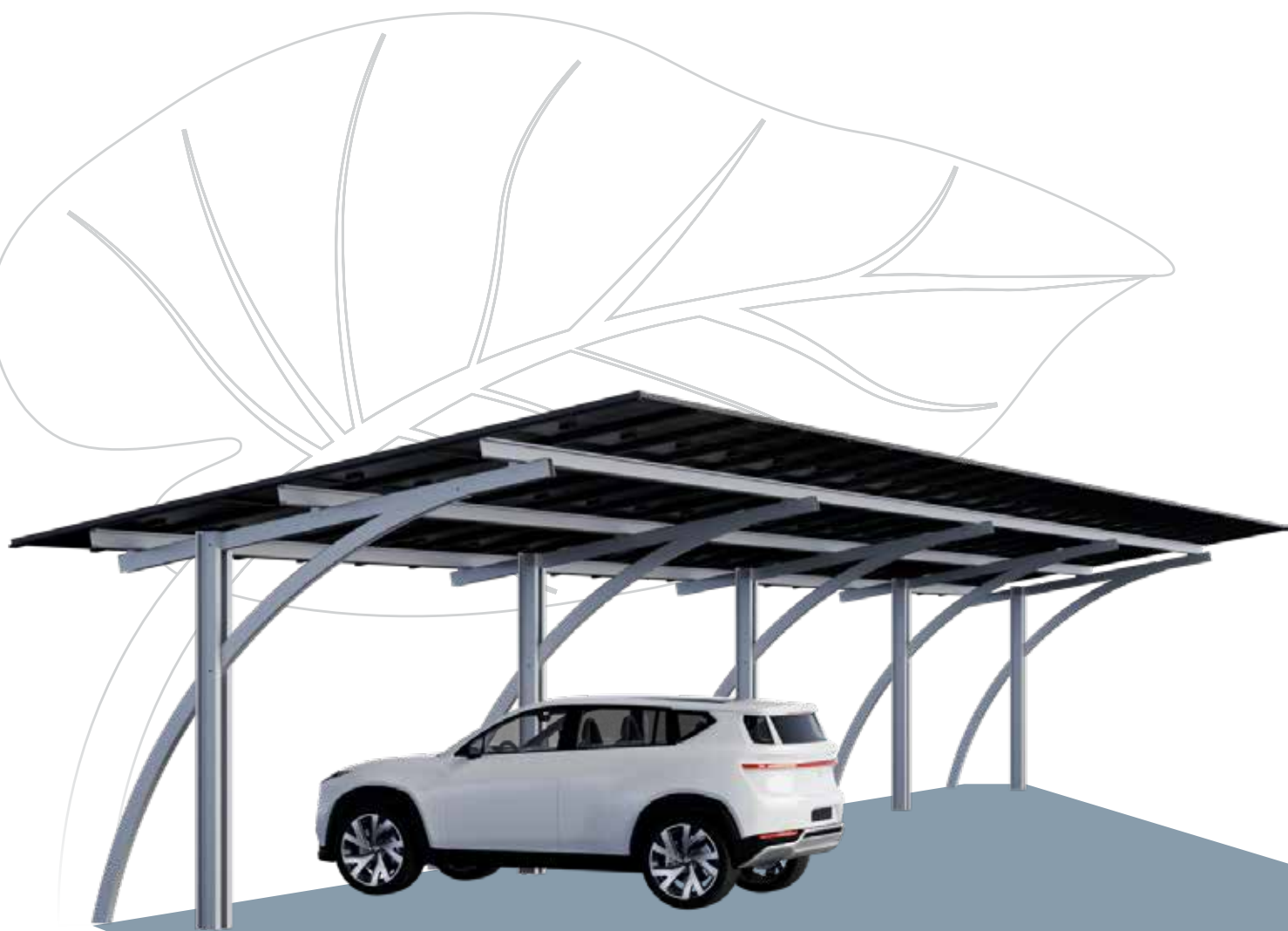
Product-Excellence



VOLTWING ECO

Maximum Material Efficiency

Inspired by nature



MEISER Solar Solutions

The Voltwing Eco Line

The VOLTWING ECO line is a highly modular system for roofing parking lots with photovoltaics based on galvanized steel profiles. Read here why the product is the best choice for end customers as well as installation and planning companies:

\ PEACE OF MIND

Work with the professionals and rely on established companies that understand your needs, are accessible and speak your language. We have also installed all the systems ourselves - we are happy to share our experience with you so that you can work more efficiently.

\ QUALITY AT THE BEST PRICE AND QUICKLY AVAILABLE

The VOLTWING ECO line consists of just a few components - this means high availability, scalability in production and therefore quality at the best price.

\ MAXIMUM FLEXIBILITY

Our carports adapt to the parking space - not the parking space to the carport. Thanks to the flexible column position and compatibility with standard PV modules, this sophisticated series product is almost as flexible as project-specific individual solutions.



\ FAST AND ERROR-RESISTANT ASSEMBLY

Large-scale projects are all about time and avoiding errors. Right from the start, we focused on quick and easy assembly during development. Where others still have to measure and mark, you can assemble our products using the holes that have already been punched.

\ SIMPLE PLANNING

The efficient handling of photovoltaic roofing projects begins in the planning phase. The modular system is very flexible and enables fast, site-specific planning with a high degree of cost certainty. In addition, we have integrated the modular system into the ArchiCAD planning program so that the correct dimensions can be used as early as the project submission stage and time-consuming replacement planning during the project period can be avoided.

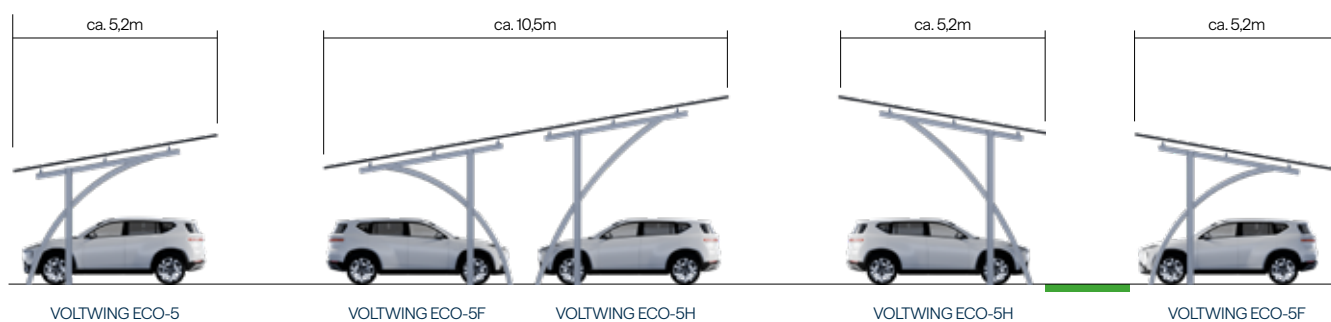


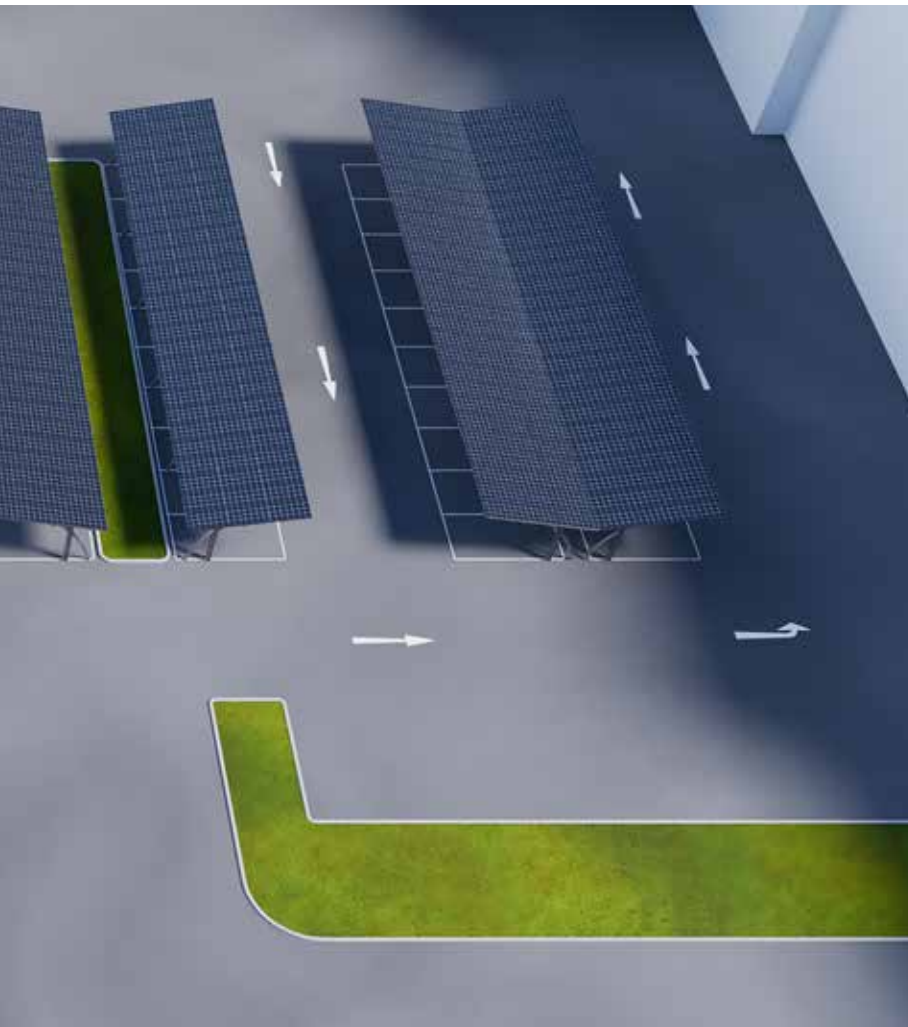
- Maximum cost efficiency
- Quality MADE IN GERMANY
- Simple modular system
- High flexibility and delivery capability
- Bifacial solar roof with standard PV modules

3 models for every floor plan



MODELS AND INSTALLATIONS OPTIONS





The VOLTWING ECO line consists of 3 models that can be used stand alone or in combination to cover any floor plan. The system works successfully regardless of orientation, as well as the presence of green and drainage strips.



Scope of delivery and options

SCOPE OF DELIVERY VOLTWING ECO MODELS

\ COLUMN KIT

Contains all steel construction components of the column incl. assembly material up to the main beam incl. the rafter connections and the foundation connection plates. Available for concrete and ground screw foundations.

\ ROOF KIT

Contains the rafters and the module rails incl. mounting material for creating the roof surface with PV modules provided. The scope of delivery is shown in blue in the adjacent diagram.

\ OPTIONAL: LED LIGHTING

PLED parking lot lighting integrated into the supporting structure. Motion detectors and power supply units must be provided by the customer on a project-specific basis.

\ OPTIONAL: INVERTER BRACKET

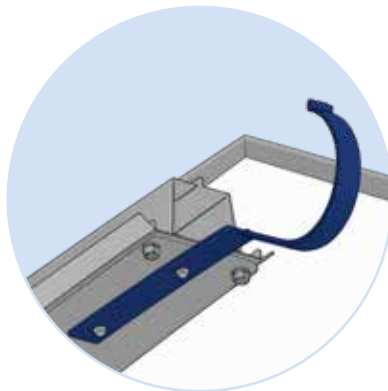
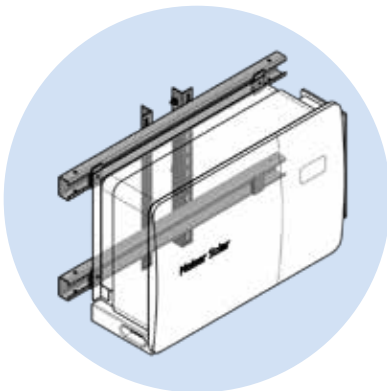
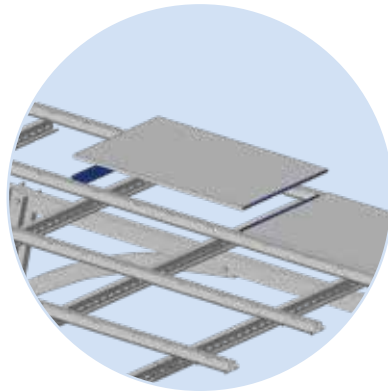
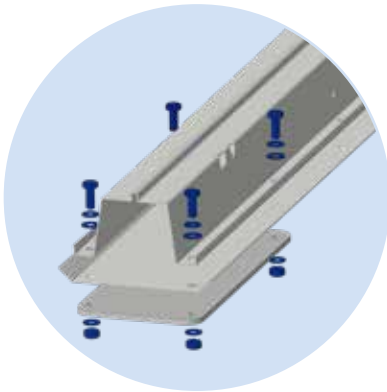
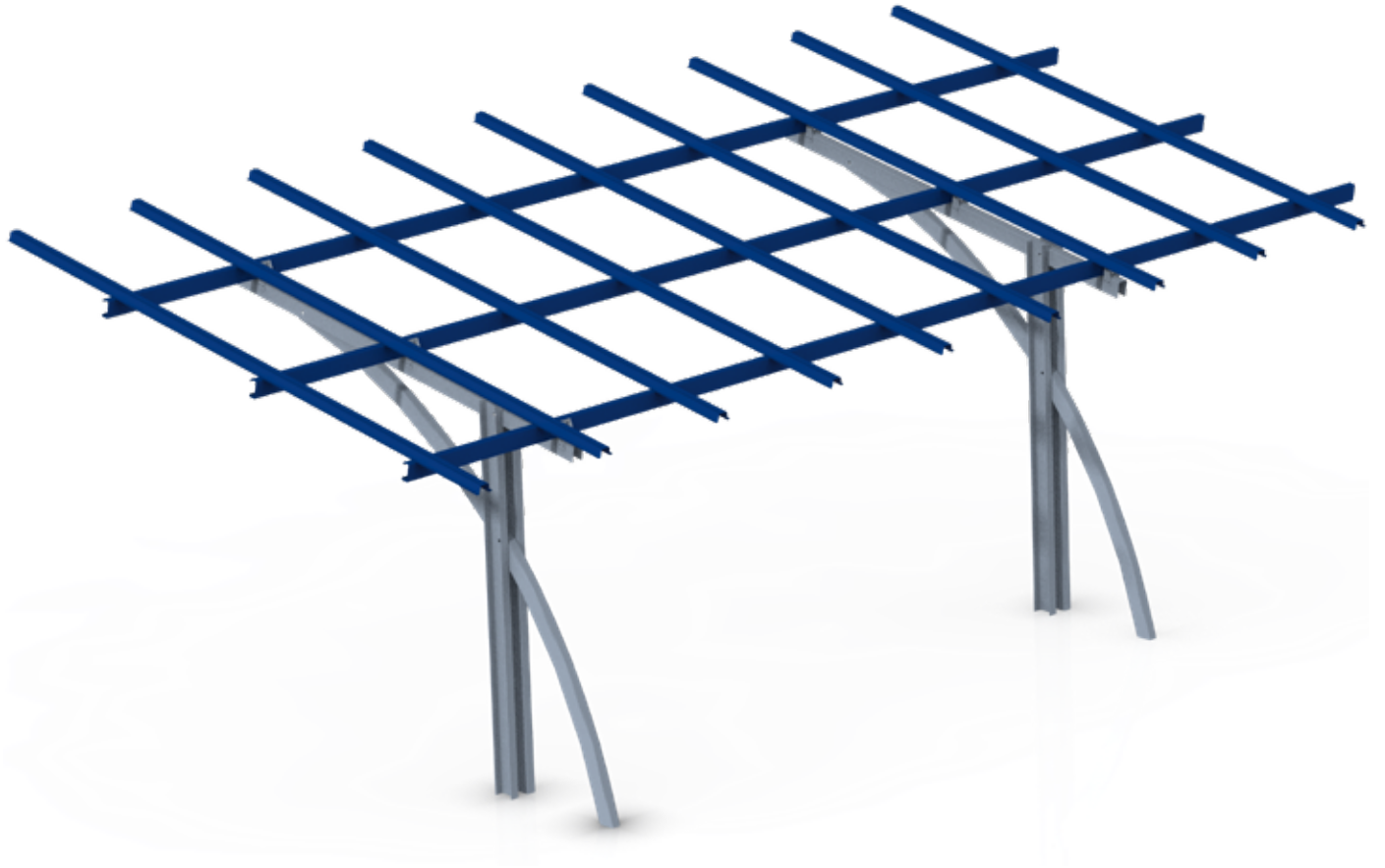
Bracket for mounting inverters and attachment onto the column. Please tell us which inverter you require so that we can check compatibility.

\ OPTIONAL: RAIN PROTECTION PACKAGE

Surcharge on the roof kit to create a rain-protected design. The package includes the longitudinal gutter, which is mounted under the horizontal rail, as well as the transverse gutters for transverse joint drainage and an EPDM tape to prevent solids, such as plant seeds, from entering the transverse gutters via rainwater.

\ CONNECTION PLATE GUTTER

Connection plate to install gutter systems onsite.





Assembly

Step 1: Column assembly

The columns are first bolted together from the two U-profiles, the curved SWING support and the main beam.

The rafter connections and the foundation connections are then installed, and the support is lifted onto the foundation. A forklift or small crane is sufficient for this.

Weight of the assembled support: approx. 150 kg.

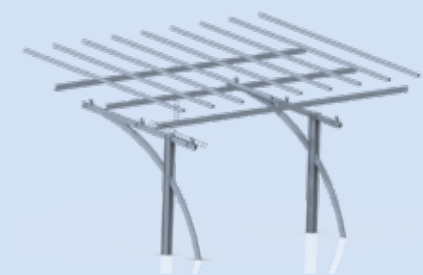


Step 2: Roof structure

The rafters are placed on the pre-assembled supports and connected to the rafter connections. The hole pattern of the rafters is punched, so that a flexible column position is possible.

The horizontal rails are then connected to the rafters via the pre-punched holes. This eliminates the need for time-consuming measuring of the horizontal rails in 2 axes.

We recommend a scissor lift for installation.



Step 3: Module assembly

Finally, the modules are inserted into the module mounting rail and connected to the module rail from below using special clamps. This is quick and does not require any work steps on the top of the modules.

A scissor lift is required for installation.



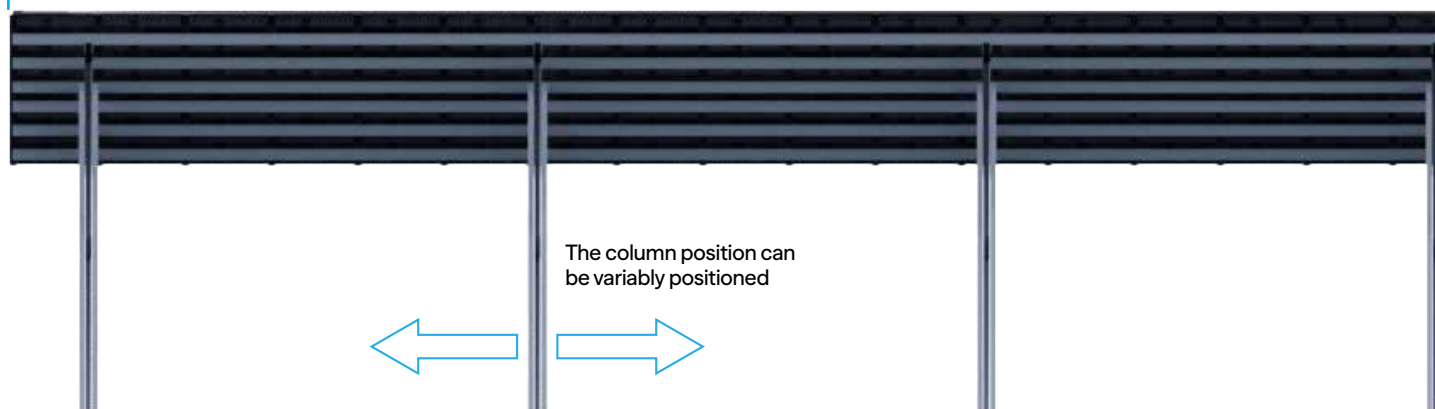
Technical data and Dimensions

Below you will find the key technical data and dimensions of the three VOLTWING ECO models.

Roof covering	Standard PV modules (not included) as a water-bearing layer on a special galvanized module rail. PV modules with dimensions of approx. 1134 × 1762 x 30 mm can be installed in the portrait format, regardless of the manufacturer. Local requirements for the PV modules as roof covering must be complied with. Rain-protected design of the module level optional.
Steel structure / surface	Hot-dip galvanized 70 µm & strip galvanized ZM310
Parking lot width	Can be varied in using the hole pattern on the rafters. Maximum clear column spacing 5.4 m
Roof pitch	10°
Foundation	Reinforced concrete or screw foundation
Maximum snow load	0,85 kN/m ² or 0,65 kN/m ²
Maximum wind load	25 m/s for terrain category III or 0,45 kN/m ² for terrain category IIIa (France)
Drainage	The drainage including rain gutter and downpipes must be installed on site.
Lighting	Can be installed by the customer on site
Inverter bracket	On request

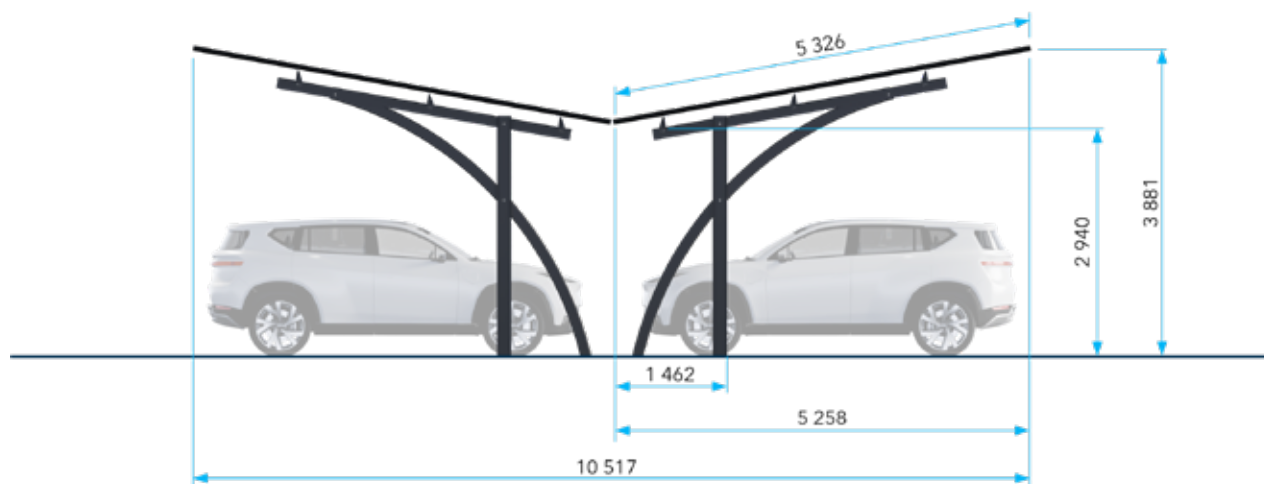
Dimensions* VOLTWING ECO-LINE

Length can be variably extended in module widths

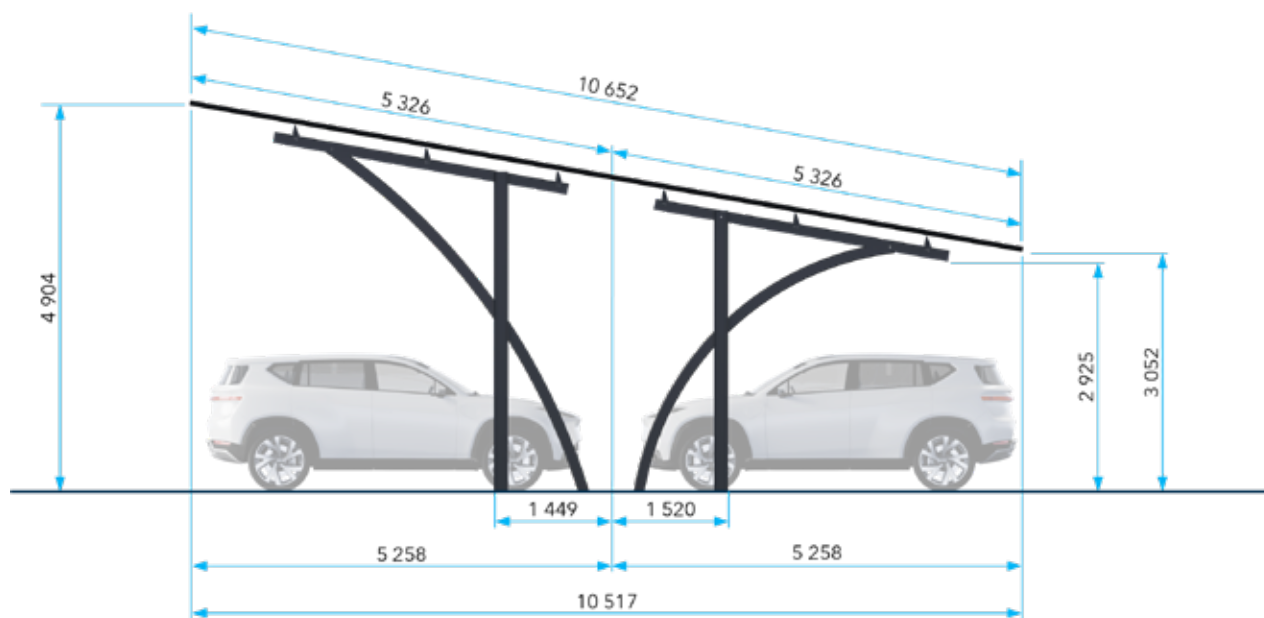


*) All dimensions have production-related tolerances of up to 150 mm.
All roof dimensions are derived from modules with dimensions of W x L x H 1134 × 1762 × 30 mm.

Dimensions* VOLTWING ECO-5 in mm



Dimensions* VOLTWING ECO-5H and ECO-5F in mm



Technical data and Dimensions





since 1956
in Schmelz-Limbach

since 2024
in Losheim am See



- ① Meiser UK Ltd
- ② The Expanded Metal Company
- ③ RST Meiser Nederland B.V.
- ④ Meiser Sarl
- ⑤ Meiser Farneco S.A.
- ⑥ Distriroute SAS
- ⑦ Gebrüder Meiser GmbH
Meiser Solar GmbH
Meiser Road Safety GmbH
- ⑧ PMI MEISER Gitterroste AG
- ⑨ Meiser Agriculture Solutions S.A.S.
- ⑩ Meiser Rejillas Hispania S.L.
- ⑪ Meiser Agriculture Solutions Italia
- ⑫ Sorst Streckmetall GmbH
- ⑬ Meiser Vogtland GmbH & Co. KG
- ⑭ ALFIX GmbH
- ⑮ Meiser Österreich GmbH
- ⑯ Meiser Road Safety Sp.z o.o
- ⑰ Meiser Polska SP.z o.o
- ⑱ Meiser Ferrote Kft.
- ⑲ ALFIX Ungarn Kft.
- ⑳ Meiser România SRL
- ㉑ Meiser FRP S.R.L.
- ㉒ Meiser Izgara San ve Tic Ltd Sti
- ㉓ Meiser SEMITECH A/S
- ㉔ Meiser Sweden AB
- ㉕ Meiser Norway AS
- ㉖ Finnritilä OY
- ㉗ IKG - Mexico
- ㉘ IKG - Houston, Texas
- ㉙ Meiser gratings Inc.
- ㉚ IKG - Indiana
- ㉛ Marangoni MEISER USA
Marangoni MEISER
- ㉜ Meiser-Maghreb GmbH
- ㉝ Meiser Algerie Sarl.
- ㉞ Hady MEISER Egypt
- ㉟ Meiser AC Sarl
- ㊱ Lionweld MEISER LLC

MEISER's production sites and branches. Nationally and internationally

- Production sites
- Offices



MEISER INTERNATIONAL



Scan here to see all MEISER locations and other branches – worldwide



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