

# VOLT WING ECO

Solar carports for large areas



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



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# MEISER

MEISER, founded in 1956, is a medium-sized, owner-managed family business with its company headquarters in Schmelz Limbach in Saarland.

As a subsidiary, MEISER Solar GmbH specializes in open-area mounting systems for photovoltaic systems. The company manages the entire value chain including the production of these systems:

from planning, steel purchasing and splitting through to production, galvanizing and global distribution. A solar capacity of up to 300 megawatts can be served every month. True to its motto „The foundation of the energy transition“, MEISER Solar is laying an important foundation stone for the green transformation of the energy industry in Germany.

## KEY DATA

- over 4,000 employees
- 22 branches worldwide
- 350,000 tons of annual steel consumption
- 16,000 tons of monthly galvanizing capacity

## PRODUCTION EXCELLENCE



# 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

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# VOLTWING ECO

## MAXIMUM MATERIAL EFFICIENCY

Inspired by nature



# 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 and train your team 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.

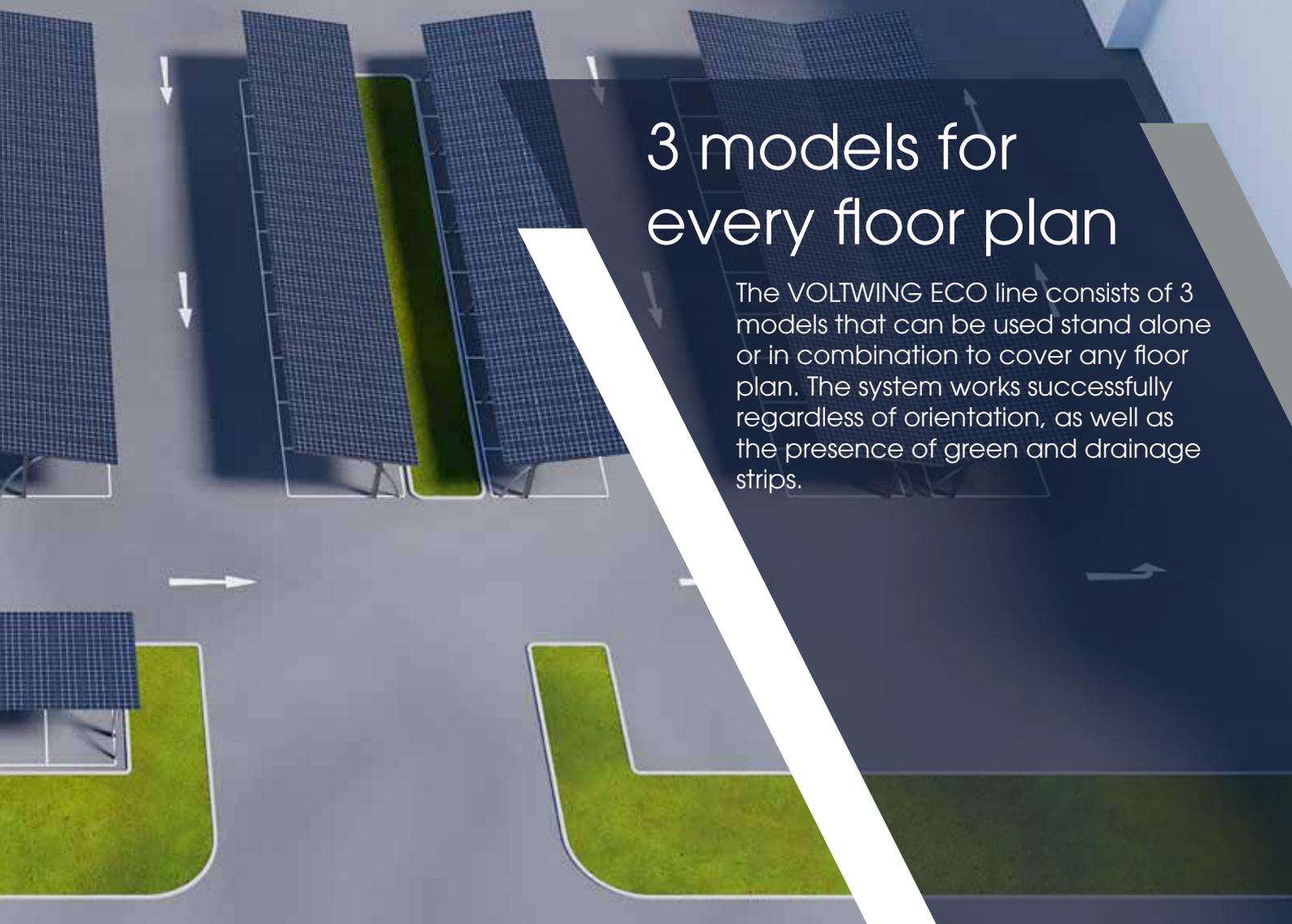


# MODELS AND INSTALLATION OPTIONS



# 3 models for every floor plan

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.

### ◆ 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

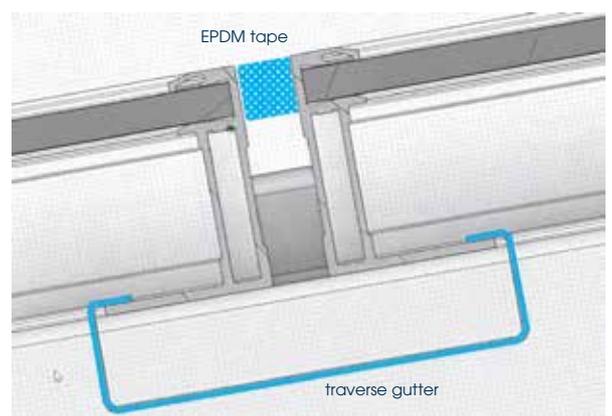
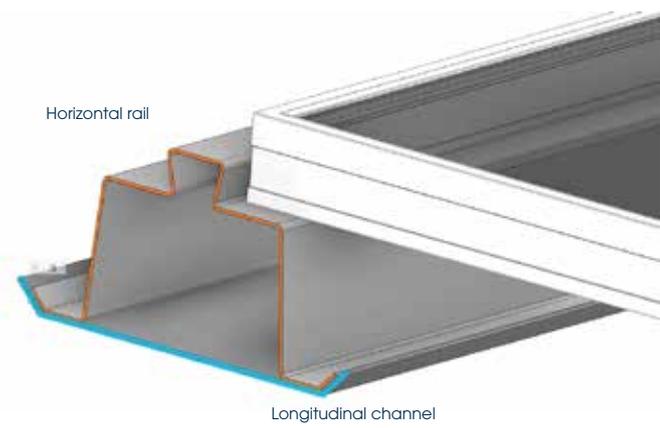
LED parking lot lighting integrated into the supporting structure. Motion detectors and power supply units must be provided by the customer on a project-specific basis.

### ◆ OPTIONAL: INVERTER BRACKET

Bracket for mounting inverters and attachment within the supporting structure. 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.





# ASSEMBLY

The main installation steps are systematically shown below. For more detailed information, please refer to the installation instructions.

## 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 every 100 mm, 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.



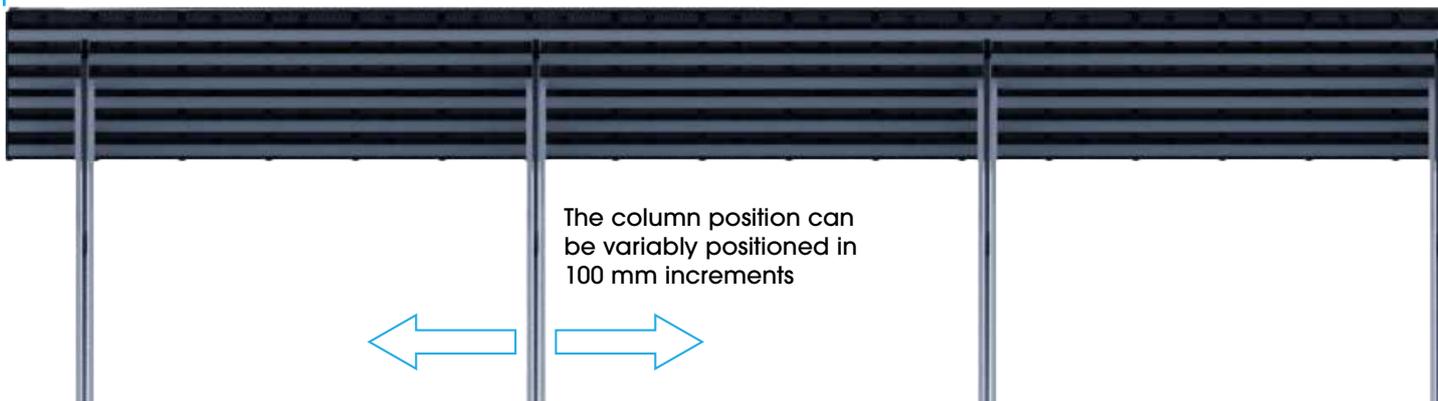
# TECHNICAL DATA AND DIMENSIONS

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 x 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 100 mm increments 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	France: 0.80 kN/m <sup>2</sup>
Maximum wind load	France: 0.45 kN/m <sup>2</sup> for terrain category IIIa
Drainage	The drainage including rain gutter and downpipes must be installed on site.
Lighting	Can be installed on site
Inverter bracket	On request

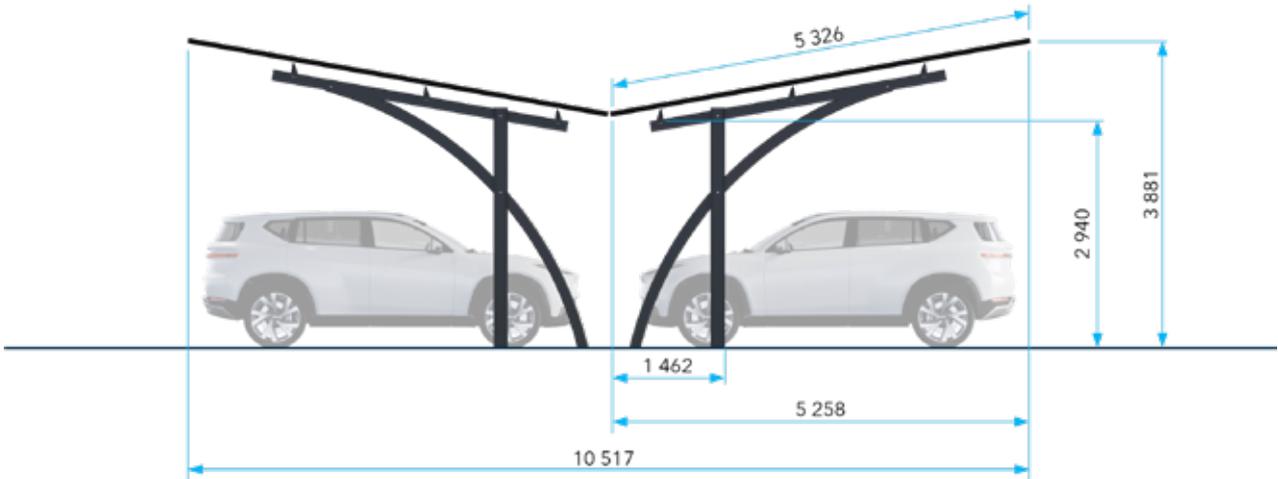
## Dimensions\* VOLTWING ECO-LINE

Length can be variably extended in module widths

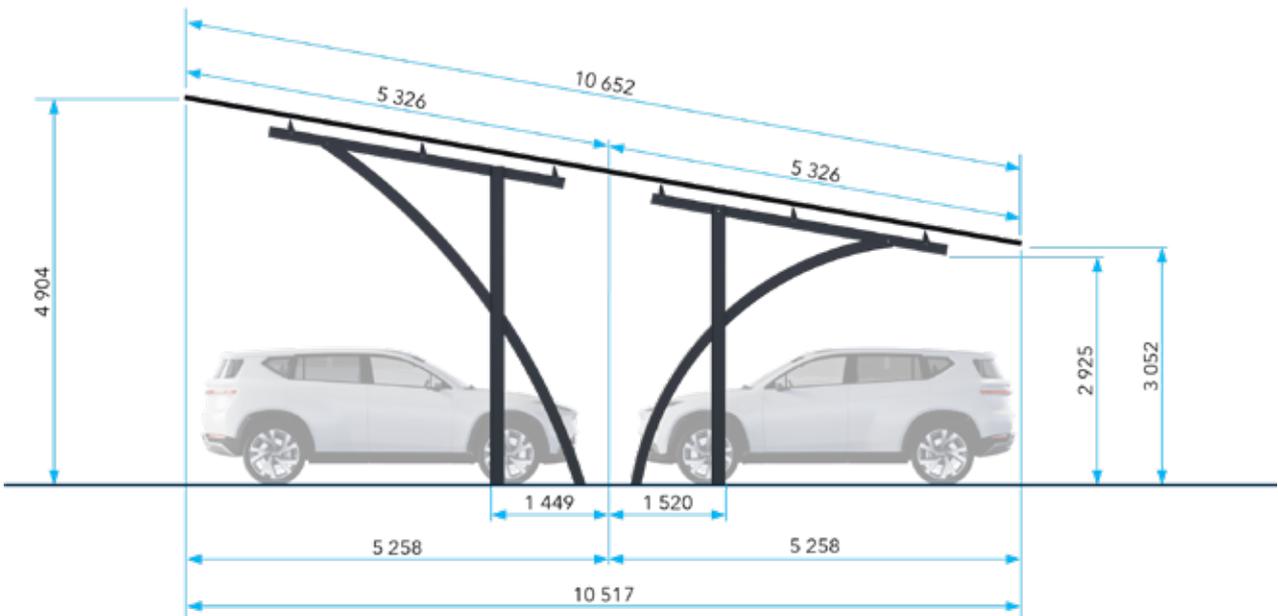


\*) All dimensions have production-related tolerances of up to 150 mm.  
All roof dimensions are derived from modules with dimensions of W x L x H 1134 x 1762 x 30 mm.

Dimensions\* VOLTWING ECO-5 in mm



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





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