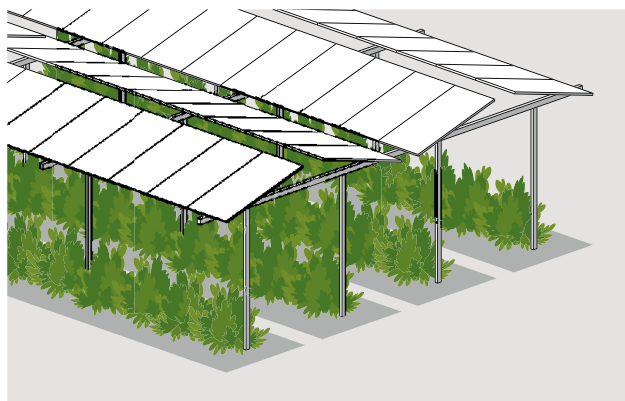


APPLICATIONS

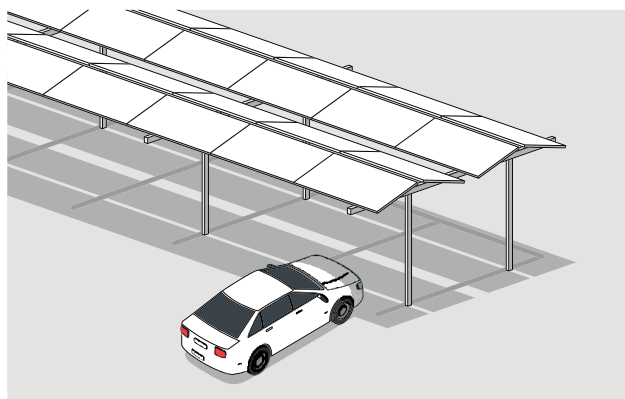
Modules over posts, south or east-west orientation



Ridge over posts, east-west orientation



Car park roofing / carport



ALLOWS DOUBLE USE OF GROUND

GMS® DOUBLE

mkG GÖBEL

THE BENEFITS AT A GLANCE

- **Double use of the ground**

Distances between posts of 3 to 5 metres (depending on the modules), 2 to 4 metres of clear headroom: There is a lot of space under the GMS® DOUBLE system, which can be used in many different ways.

- **Complies with DIN SPEC 91434**

GMS® DOUBLE fulfills the requirements of DIN SPEC 91434: a maximum area loss of 10 %; height of at least 2.1 m. The agricultural yield must reach at least 66% of the reference yield. Light availability and water distribution can be adapted to the individual needs of the respective crop using semi-transparent modules and rainwater collection and irrigation systems.

- **Structural crop protection**

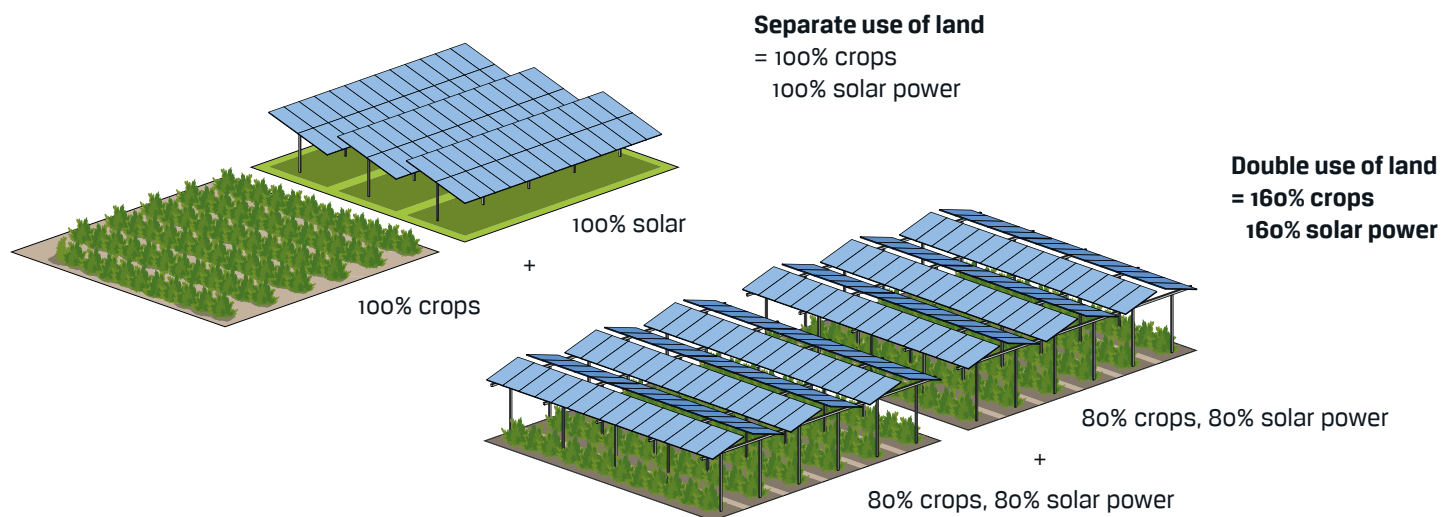
For agricultural use (Agri-PV), the roof protects against weather extremes (heavy rain, hail, excessive sunlight). GMS® DOUBLE can thus replace foil tunnels or greenhouses. Even watertight roofing is possible.

- **Control of the light conditions**

With an east-west orientation, the light moves across the ground during the course of the day. The quantity of transmitted sunlight can be regulated by module row spacing, and can be further increased with semi-transparent modules.

- **Profitable electricity yield curve**

When aligned east-west, GMS® DOUBLE allows longer electricity production on summer days than south-facing systems. The daily yield curve is wider and flatter, the midday peak less pronounced.



Source: Fraunhofer ISE, Freiburg

Illustration: MKG GÖBEL



MAIN COMPONENTS

1 POSTS

Corrosion-resistant C-profiles offer maximum flexibility for the most diverse ground conditions.



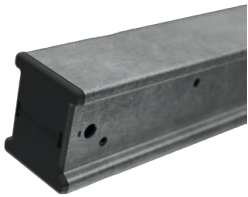
2 SUPPORTS

Stable construction holds the modules at the desired tilt angle.



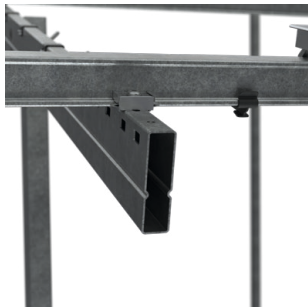
3 LONG BEAM

The closed long beam made from steel provides stability and stepless fastening options.



4 MAIN BEAM

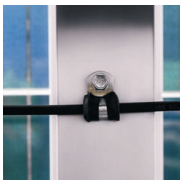
Optimised main beams made from steel with zinc-magnesium coating.



ACCESSORIES



Cable tray made from UV-stabilised polymer for cable routing along the long beam



Cable clamps to secure the module cables to the module carrier



Bridging strap for potential equalisation within the table rows



Optional earthing pins for potential equalisation of the modules from below



String inverter / string combiner box (SCB)



Bite-protection cage made from double bar mesh



End caps



Mowing protection

TECHNICAL DATA

SYSTEM GMS® DOUBLE

CONSTRUCTION

- Modular system, optimised for raised design
- Split posts for height compensation, adaptable to the terrain
- Sloping terrain up to 5% (higher on request)

MATERIAL

- Posts: hot-dip galvanised steel (batch galvanised – EN ISO 1461, alternatively zinc-magnesium)
- Profiles, stands: galvanised steel (batch galvanised – EN ISO 1461, alternatively zinc-magnesium)
- Small parts: aluminium EN AW 6063 T66

FOUNDATION

Rammed posts, concrete foundation or drill holes (in rocky ground)

STATIC CALCULATION

Project-specific in accordance with Eurocode DIN EN 1991, DIN EN 1993, DIN EN 1999, wind tunnel test, CC2, load return period 50 years

MODULE ORIENTATION

1 module vertically, 1 module horizontally

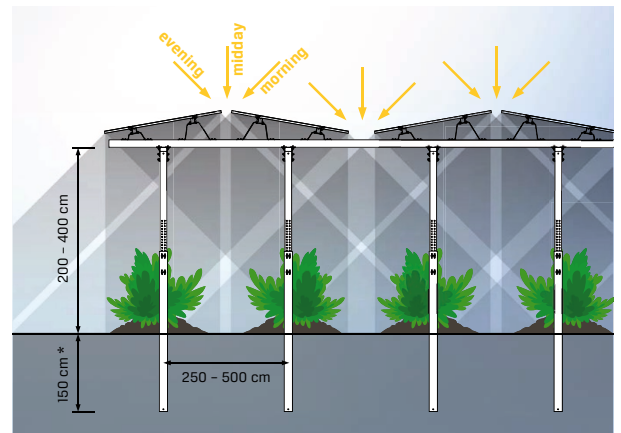
ANGLE OF INCLINATION

Standard: 12° (other angles on request)

LIGHT TRANSMISSION

0 – 90 % (project-specific)

* varies according to ground conditions



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**Certified in accordance with
DIN EN ISO 9001:2015**

**Workplace-protection certified
ISO 45001:2018 and SCC**

