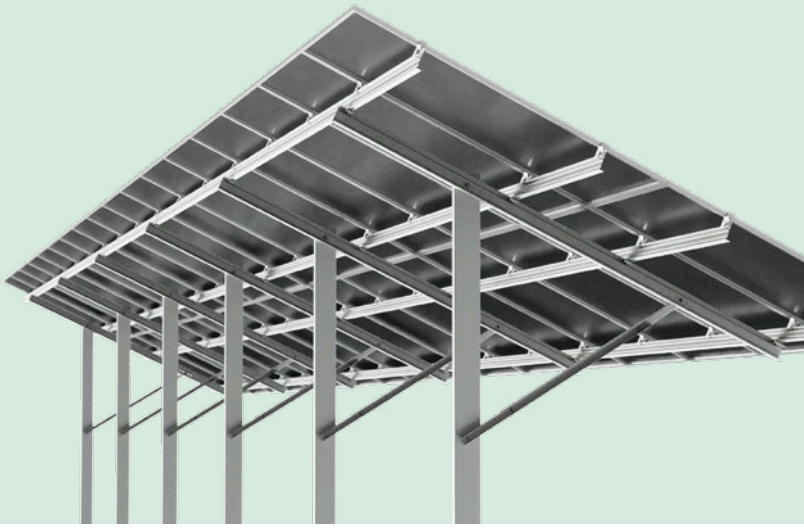
FS UNO

PRODUCT SHEET



Economical single-support system

Easy use in difficult terrain

Easily accessible for maintenance work because of a ground clearance of up to 1,500 mm

Proven for Agri-PV applications

IN USE WORLDWIDE

The FS open-space system has proven itself for many years in countless projects almost all over the world. More than 15 GW of installed capacity has already been achieved with this system.
The FS Uno single-support system made of steel was developed as a counterpart to the FS Duo two-support system. Its flexibility makes it an optimal solution for difficult terrain on which a small number of foundations seems reasonable.
Low cost of electricity (LCOE) is made possible by easy installation and low weight. This, in turn, results in low transport costs.



Highly efficient and material-efficient profile geometries

ECONOMIC SOLUTION FOR LARGE PROJECTS

The structure is made of pre-galvanized material and is available in various finishes. Great care has been taken to ensure that the use of the substructure is suitable for almost any terrain. The efficient use of materials and the larger distances between the supports, which are adapted to the terrain, make the steel system particularly attractive for the implementation of large projects.

The FS Uno is available in individual parts or completely pre-assembled upon request. In most cases, the piling foundations replace the concrete foundation; this saves considerable material and labor costs.

In addition, the system is optimally accessible, and the proportion of sealed ground area is zero. This makes FS Uno perfect for Agri-PV applications as well as rocky terrain that requires pre-drilling.



FS UNO

TECHNICAL DETAILS

Field of application	Open-air system with pile-driven foundation; individual supports
Material	• Pile-driving foundations: steel, Z1200 hot-dip galvanized in accordance with DIN EN ISO 1461 or ZM600 coated in accordance with DIN EN 10346 (depending on soil conditions) • Girders/purlins: steel, Z600 hot-dip galvanized in accordance with DIN EN ISO 12944-2 or ZM310 coated in accordance with DIN EN 10346 • Module clamps: aluminum clamps or screw connection in accordance with customer requirements • Fasteners and screws: steel, zinc flake coated, or stainless steel
Planning aid	Project specific planning
Statics	• Individual system statics based on regional data and guidelines • Structural analysis of the terrain based on an external soil survey • 3D terrain model for foundation design and optimization (optional) • The loading assumptions comply with DIN EN 1991-1 Parts 3 and 4, DIN EN 1990, DIN EN 1999, and DIN EN 1993 as well as the regulations of the national annex (UL 2703, ASCE 07-05, ASCE 07-10, ASCE 07-16, ASCE 07-20) • Proof of all structural components based on FEM calculations or according to structural test set-up
Module assignment	• Framed modules with a frame height of 30–50 mm • Two module rows in vertical alignment • Option for large-format or bifacial modules • Option for First Solar modules
Fastening	• Rear clamping possible • Integrated grounding of the modules (optional)
Warranty	10 years in accordance with our warranty conditions
Supplementary documents	Mounting instructions for FS Uno