Substructure for open-space PV systems

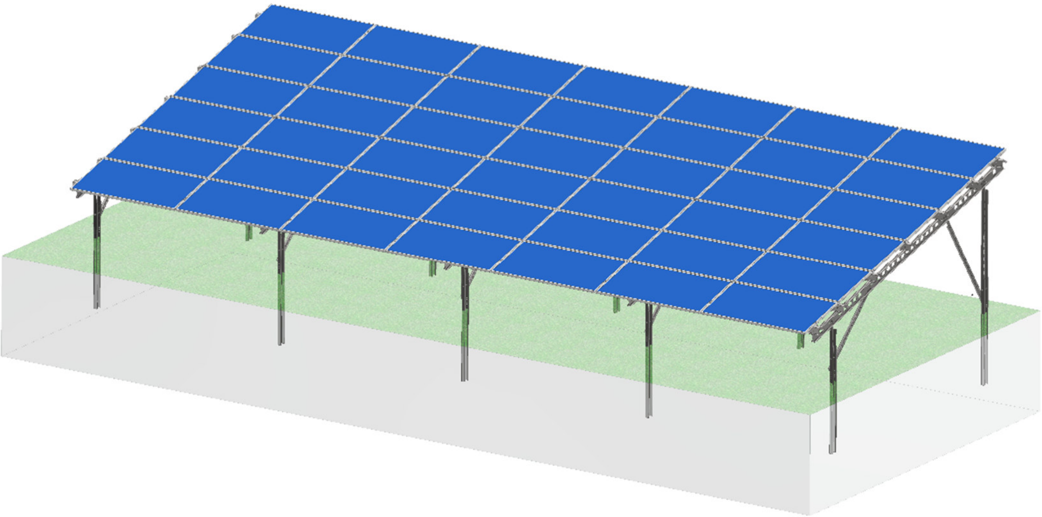


Figure 1: Example setup with 6 modules in horizontal alignment

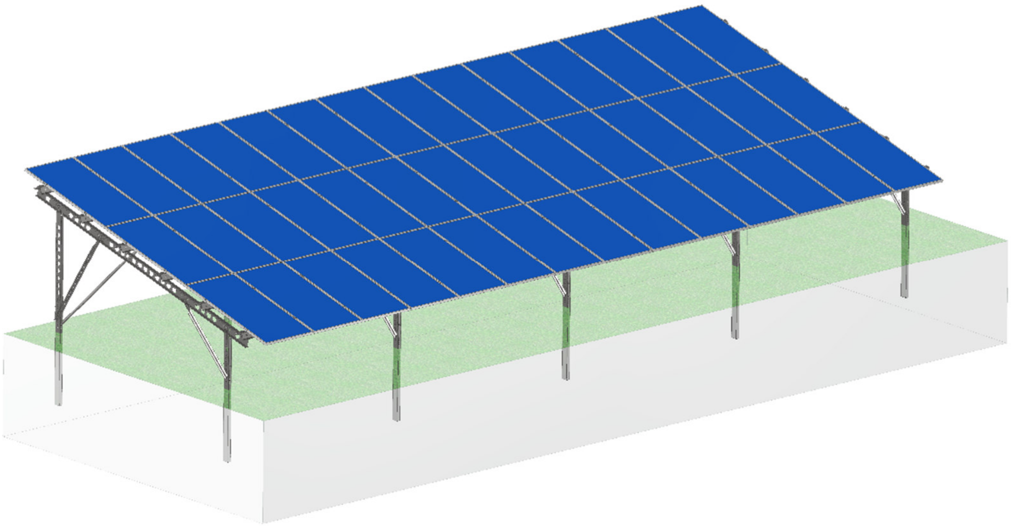
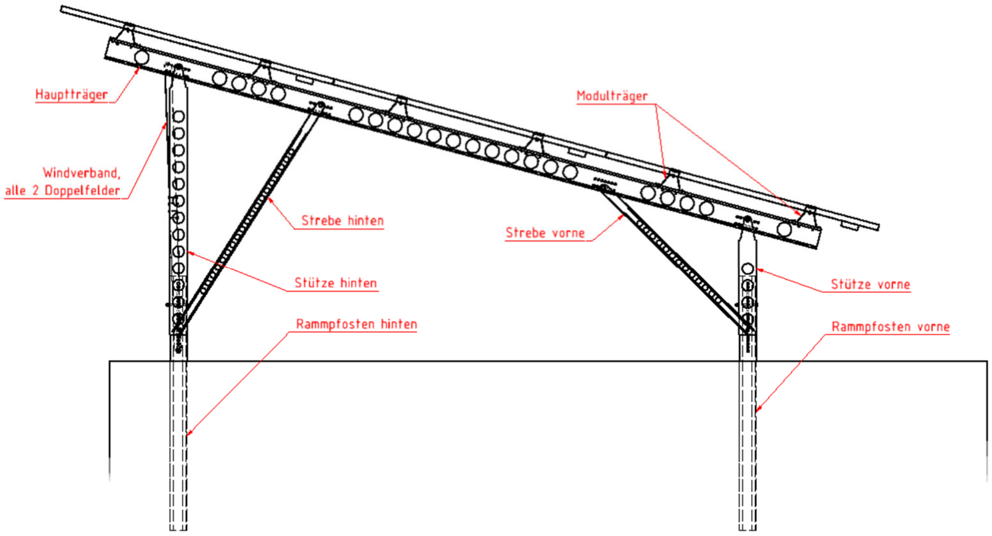


Figure 2: Example setup with 3 modules in vertical alignment

The two-support system for PV ground-mounted systems from KÖNIG is equally suitable for both horizontal (Fig.1) and vertical (Fig.2) module alignment and its dimensions are tailored to the project.

The design intends to bring as little material as necessary to the installation site in order to optimize logistics and handling.

A low number of parts, the use of common parts and the key-lock principle reduce the susceptibility to errors (individual parts cannot be assembled "the wrong way round").



System angle	0...30° assembled according to requirements (typically 15°)
Module capacity	Max. 4 Vertical / 8 Horizontal (typical: 3V/6H)
Module types	framed and unframed modules with typical frame heights of 30-45mm, bifacial
Table length	Endless - Compensation of thermal longitudinal expansion of the module girders enables endless assembly
Pile driving	Pile-driven post profiles without further foundations. The required pile-driving depth depends on the subsoil.
Post distance	Depending on system configuration (number and orientation of modules, system angle, snow and wind loads). Typical: 3 - 4m (in table length)
Materials	Profile system made of S350GD+Z600 or ZM310 or comparable Connecting elements made of A2 stainless steel
Adjustment options	Multiple perforated connection points can compensate for inaccuracies in pile driving depth and position to a limited extent.
Statics	In the case of a quotation: Preliminary design to determine the material requirements. For order: project-specific, tested structural analysis according to Eurocode.
Field of application, requirements	Pile-driven and load-bearing substrateFor wind load zones 1 - 4
Optional accessories	Inclination compensation piece: For mounting the module supports at inclinations of up to 10° in the longitudinal direction of the table. Additional posts / profiles for mounting e.g. inverters or profile variants with special perforation