

Open Field PV Rack Mounting System

KIVO

FS

Concrete Foundation

KIVO FS

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Mounting system KIVO FS for ground mounted photovoltaic systems is suitable for First Solar thin film modules

The mounting system consists of galvanized steel mounting structures, based concrete foundations east to west or north to south positioned

- A ramming test is carried on before the installation in order to ensure the ground suitability.
- Each bay consists of a steel braced frame, made of galvanized cold formed steel sections and can accommodate 6 to 8 p/v modules. The span between the ground supports varies between 3000 to 4200mm.
- Horizontal mounting (landscape) and vertical mounting (portrait) are possible on the KIVO FS
- Aluminum clamps (middle & end profile, EPDM rubber) are used to fasten the modules.
- P/V module's minimal distance to the ground – 500mm.or upon demand
- Only M12 screws are used
- Optimized material selection, integrated functions (e.g. cable conduit) and reduced number of single parts ensure quick and easy installation.
- The mounting system is CE certified and suitable for the climate conditions of Europe.
- Solutions even for difficult terrain and geological situations, ground conditions and/or earth quake areas are available on request.

- KIVO FS
- Concrete Foundation
- Open Field
- Concrete Block
- 20 Years Warranty
- CE, ISO 9001 TÜV



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Specifications

| | |
|----------------------------|---|
| Application | Ground mounted |
| Grounding | Concrete block foundation |
| Soil Classes DIN 18300: | High corrosive soil (Ph<6 or Ph>9) or upon demand |
| Material | Cold roll-formed pregalvanized steel profiles according to DIN EN 1327 – S320+Z or post galvanized steel profiles |
| Tilt Angles | Upon demand from 10 to 40 degrees |
| Panel arrangement | 4-5 line horizontal mounting(landscape) |
| Module Compatibility | First Solar PV modules |
| Average Installation Rate | Up to 10kwp/man per day |
| Accessories: Screw type | Aluminum profile depending on module specifications Grade 8.8 (galvanized) or A2-70(Stainless steel), M12 and M8(clamps) EPDM rubber against Electrolytic corrosion |
| Warranty | 20 years or 40 years (post galvanized) |
| Manufacturing Location | Depending on the location of an installation site |
| Certifications: | CE, ISO 9001 TÜV |

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Images



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Design Norms & Standards

Design according to the following Norms:

Eurocode 1: Actions on structures (EC1, ENV 1991 1-1, 1-3, 1-4),

- Part 1-1: General actions – Densities, self-weight and imposed loads
 - Part 1-3: General actions – Snow loads
 - Part 1-4: General actions – Wind actions

Eurocode 3: Design of steel structures (EC3, ENV 1991-1-1, 1-3)

- Part 1-1: General rules and rules for buildings
- Part 1-3: General – Cold formed thin gauge members and sheeting
 - Part 1-8: General – Design of joints
- Part 1-10: General – Material toughness and through thickness assessment

Eurocode 8: Design of structures for earthquake resistance (EC8, ENV 1998-1-1)

- Part 5: Foundations, retaining structures and geotechnical aspects
- Part 1: General rules, seismic actions and rules for buildings
 - National Norms for Earthquake Resistance



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