

Open Field PV Rack Mounting System

KIVO

TF

SINGLE PILE

KIVO TF

SINGLE PILE

Mounting system KIVO TF for ground mounted photovoltaic systems is suitable for frameless thin film modules.

The mounting system consists of galvanized steel mounting structures, based on pile foundations such as IPE, C, Σ or RHS.

- Foundations are rammed to the depth of up to 2 meters into the ground.
- 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 TF
- Aluminum clamps (middle & end profile, EPDM rubber) are used to fasten the modules.
- P/V module's minimal distance to the ground – 500mm or up the specifications .
- Optimized material selection, integrated functions (e.g. cable conduit) and reduced number of single parts ensure quick and easy installation.
- Only M12 screws are used .
- 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 TF
- Single Pile
- Open Field
- 20 Years Warranty
- CE, ISO 9001 TÜV



KIVO TF

SINGLE PILE

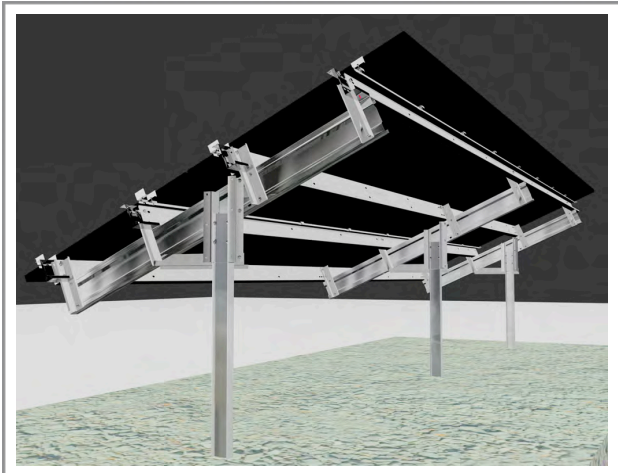
Specifications

Application	Ground mounted
Grounding	single pile or drilling/concrete filling
Soil Classes DIN 18300:	Soil Classes 3-5 single pile Soil Classes 5-7 single pile/ drilling
Material	Cold roll-formed pre-galvanized steel profiles according to DIN EN 1327 – S320 +Z, or post galvanized steel profiles Hot dip Galvanized IPE, C, Σ or RHS. section piles according to EN ISO 1461
Tilt Angles	Upon demand from 10 to 40 degrees
Panel arrangement	3-4 or more line horizontal mounting(landscape) Up to 3 line vertical mounting(portrait)
Module Compatibility	Framed modules, all available commercial types
Average Installation Rate	Up to 12kwp/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

KIVO TF

SINGLE PILE

Images



KIVO TF

SINGLE PILE

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



SOLAR CUBE
GmbH, Germany

Bahnhofstr. 95, 82166
Graefelfing – Munich, DE

Phone: +49 89 57084105



info@solarcube.com



www.solarcube.com

Click to sign up to our newsletter