

Open Field PV Rack Mounting System

KIVO

SL

INCLINATION MOUNTAIN SLOPES

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Mounting system KIVO SL for ground mounted photovoltaic systems is suitable for installations on mountain slopes. Minimizing earthworks and foundation works.

- The mounting system consists of galvanized steel mounting structures, based on pile foundations such as IPE or RHS or concrete foundations
- Each bay consists of a steel braced frame, made of galvanized cold formed steel sections configuring “tables” of up to 50 kWp total rated power of p/v module in multiple portrait or multiple landscape arrangement.
- Each structure is customized according to the project terrain and specifications and designed carefully minimizing earthworks using 3D Geographical Display of the terrain surface.
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- 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 SL**
- **Ground Mounted**
- **Open Field**
- **Twenty Years Warranty**
- **CE, ISO 9001 TÜV**



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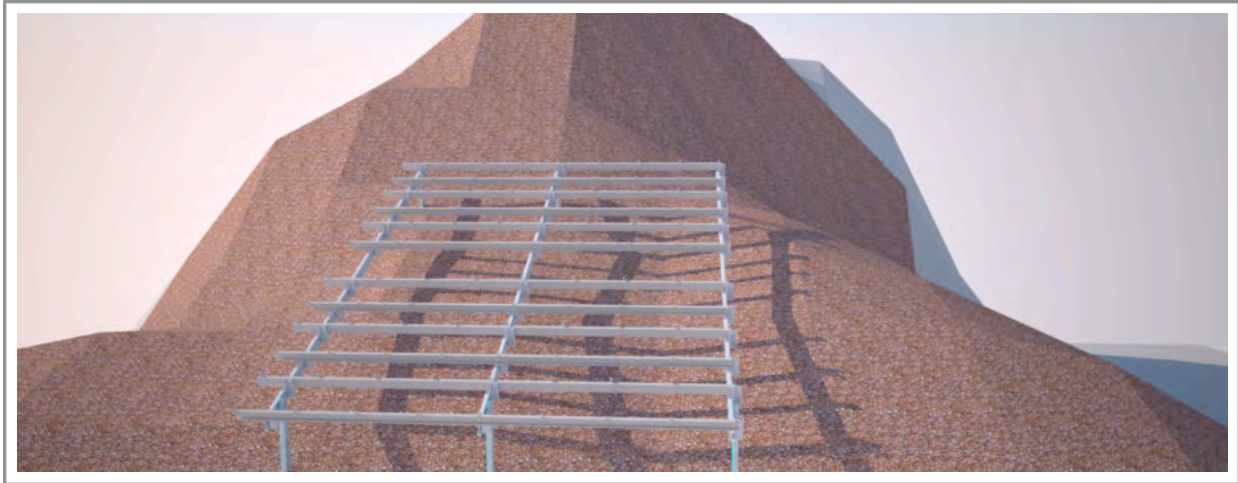
Specifications

Application	Ground mounted
Grounding	Double pile ramming or drilling and concrete filling
Soil Classes DIN 18300:	Soil Classes 1-7
Material	Cold roll-formed pre galvanized steel profiles according to DIN EN 1327 – S320 + Z or post galvanized steel profiles Hot dip Galvanized C, Sigma 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 16 kWp/man per day
Accessories:	Aluminum middle and end clamps: EN AW-6063 T6
Screw type	Grade 8.8 (galvanized) or A2-70(Stainless steel), M12 and M8(clamps) EPDM rubber against Electrolytic corrosion
Warranty	20 years (post galvanized)
Manufacturing Location Certifications:	depending on the location of an installation site 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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