



Pro Solar Tech | Solar Power Plants, Solar EPC & Ground Mounted Solar Systems

Pro Solar Tech delivers large-scale solar power plants with complete Solar EPC solutions and high-quality ground mounted solar systems for reliable, cost-effective energy generation.

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Technical Data Sheet – Ground mount solar racking systems 3P-7

Technical Characteristics

Capacity	21 photovoltaic panels
Compatible panel size	2278 x 1134 x 30 mm
Foundation system	Rammed galvanized steel posts, 1500 mm depth
Tilt angles	8°, 10°, 12°, 15° (other variants available on request)

Compatible Photovoltaic Panels

The Ground mount solar racking systems 3P-7 is optimized for standard modules with dimensions of 2278 x 1134 x 30 mm. This is one of the most widely used sizes in the PV industry. On request, structures can also be engineered to support alternative panel sizes or thicknesses, ensuring full compatibility with diverse module types.

Structure Components



8 support poles: Hot-dip galvanized steel posts driven 1500 mm into the ground, transferring axial, shear, and overturning loads safely into the soil.



4 main beams: Longitudinal beams that tie the verticals into a continuous frame, distributing loads from purlins and clamps across multiple supports.



12 cross purlins: Transverse members that set module spacing and support portrait strings, resisting wind uplift and maintaining alignment.



2 bracing members: Diagonal braces that increase racking stiffness and control drift, preventing torsion and preserving array straightness.



Set of high-strength galvanized bolts (class 8.8): Structural fasteners specified for slip-critical joints with protective coating against corrosion.



Aluminum clamps: Anodized clamps that secure panels firmly without damaging frames, compatible with various module thicknesses.

Note

Installation services are not included in the delivery.

Pro Solar Structures – We are direct manufacturers with a wide range of ground mounting systems available in stock. Immediate delivery from our warehouse ensures your projects are executed without delays.