



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.

office@prosolarstructures.com | prosolarstructures.com

Technical Data Sheet – Ground mount PV systems 2P-10

Technical Characteristics

Capacity	20 photovoltaic panels
Compatible panel size	2278 x 1134 x 30 mm
Foundation system	Rammed galvanized steel posts, 1500 mm depth
Tilt angles	20°, 23°, 25°, 28°, 30° (other variants available on request)

Compatible Photovoltaic Panels

The Ground mount PV systems 2P-10 is optimized for standard modules with dimensions of 2278 x 1134 x 30 mm. This is one of the most widely used formats 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



12 support poles: Hot-dip galvanized steel posts driven 1500 mm into the ground. These elements act as the structural backbone, transferring axial and lateral loads into the soil and ensuring stability under wind and snow conditions.



6 main beams: Longitudinal galvanized beams interconnecting the support poles, distributing forces evenly and maintaining overall structural balance. Factory-drilled for accurate positioning and quick assembly.



8 cross purlins: Transverse components that support the photovoltaic modules, ensuring proper spacing, stability against uplift, and uniform load transfer across the structure.



2 bracing members: Diagonal members that provide rigidity and prevent torsional movement. They stabilize the frame under dynamic loads such as gusts or uneven terrain settlement.



Set of high-strength galvanized bolts (class 8.8): Corrosion-resistant industrial fasteners designed to maintain preload and secure slip-critical joints for long-term reliability.



Aluminum clamps: Lightweight, anodized clamps securing modules at mid and end positions without frame damage. Designed for durability and compatibility 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.