



## 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 PV systems 2P-10, Concrete Pier

### Technical Characteristics

Capacity	20 photovoltaic panels
Compatible panel size	2278 x 1134 x 30 mm
Foundation system	Galvanized steel posts anchored in isolated concrete piers, 1000 mm depth
Tilt angles	20°, 23°, 25°, 28°, 30° (other variants available on request)

### Compatible Photovoltaic Panels

The Ground mount PV systems 2P-10, Concrete Pier is optimized for standard modules with dimensions of 2278 x 1134 x 30 mm. This is one of the most common 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:** Heavy-duty galvanized steel posts anchored into isolated concrete piers at approximately 1000 mm depth. They provide the backbone of the system, ensuring stability under wind and snow loads.



**6 main beams:** Longitudinal galvanized beams tying the vertical supports together and distributing loads evenly across the array. Precision-drilled holes simplify alignment and installation.



**8 cross purlins:** Transverse members that hold and align the panels across the table width. They resist uplift and ensure uniform distribution of forces.



**4 bracing members:** Diagonal reinforcement elements providing extra rigidity. They counter torsional forces and vibrations, keeping the array straight in dynamic conditions.



**Set of high-strength galvanized bolts (class 8.8):** Industrial fasteners with anticorrosion coatings and tensile strength to secure slip-critical joints, minimizing the need for retightening.



**Aluminum clamps:** Purpose-built mid and end clamps holding modules firmly in place. Anodized finishes and stainless hardware ensure long-term grip without frame damage.

### 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.