

TRP



PERPETUAL POWER

Power Ready Integrated Mounting Environment

A modular fixed tilt mounting system for large commercial solar projects



THE CHORD ASSEMBLY

DIFFERENT ATTACHMENTS FOR
ROOF OR GROUND ATTACHMENTS

THE NOTION OF THE CHORD

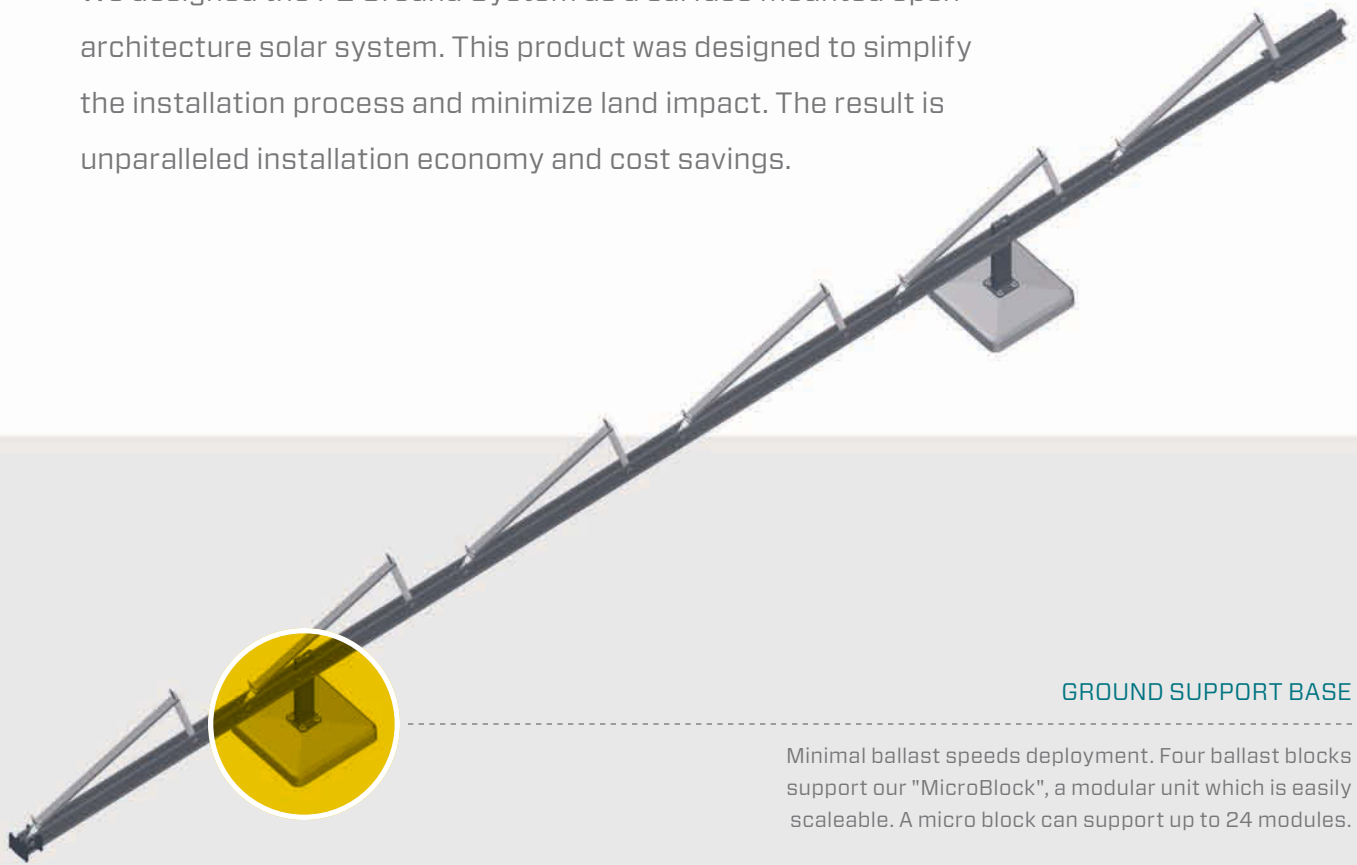
Part Commonality & Economy of Installation

The "chord" assembly is the foundational building block of the P2 substrate. The Chord Assembly is common to both the roof and ground mount systems. Chords are deployed in parallel rows to support panelized modules that are simply attached across the substrate. This innovative architecture creates a robust system that is both easy and fast to install. P2 uses only high quality aluminum extrusions, providing a superior strength-to-weight ratio and making the whole system completely recyclable.

* Chords can be delivered pre-assembled

P2 GROUND MOUNT SYSTEM

We designed the P2 Ground System as a surface mounted open architecture solar system. This product was designed to simplify the installation process and minimize land impact. The result is unparalleled installation economy and cost savings.

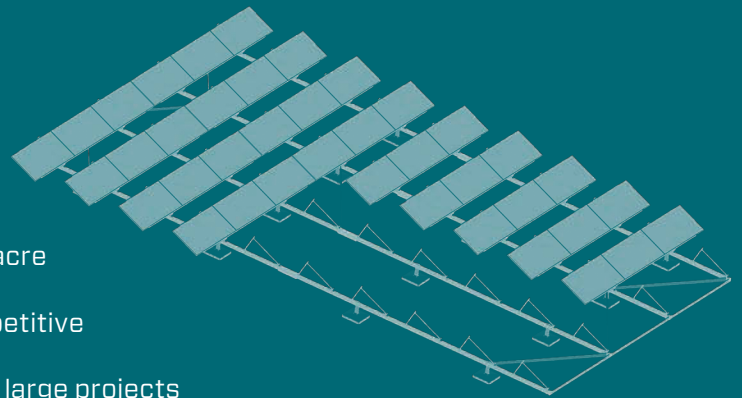


GROUND SUPPORT BASE

Minimal ballast speeds deployment. Four ballast blocks support our "MicroBlock", a modular unit which is easily scaleable. A micro block can support up to 24 modules.

Performance Features

- High productivity material handling solutions
- Supports any tilt angle and maximizes output per acre
- Highest Quality Aluminum Extrusions - Price Competitive
- 6061 Aluminum has significant end of life value for large projects
- Pre-cast ballast blocks - No Onsite Pouring - No Heavy Equipment - No Soil Reports
- "Centralized build" ensures consistent and predictable build environment in any weather



P2 ROOF MOUNT SYSTEM

The P2 Roof System was designed by engineers with long term experience in PV system design and a lot of time on roofs. The unique, customizable substrate allows us to take a “building-centric” approach and design the PV system to the individual building conditions. This approach enables a premium interface with the existing structure, ensuring superior weight distribution and minimal connection points. The combination of these factors yields a powerful system that maximizes total production and promotes rapid installation.

ROOF SUPPORT BASE

Flexible substrate design uniquely allows chords to be aligned to building supports and structure without affecting roof waterproofing.

HIGH CLEARANCE

Generous height clearance to go over any obstacles

TRIANGLE ASSEMBLY

Triangles Come Assembled. Customized to fit any tilt or inter-row spacing.

Performance Features

Minimal Parts (4) enables, quick, predicable build times. There are no hidden costs.

Building supported substrate ensures fewest penetrations and PSF. Among the lightest in the industry at 2.25 lbs. per square foot.

Available in any tilt angle, inclination or inter-row spacing.

Substrate and panelization architecture allow full assembly in controlled environment.

Components are designed for easy assembly and disassembly System is designed to maximize roof life, create air flow and keep environment cool

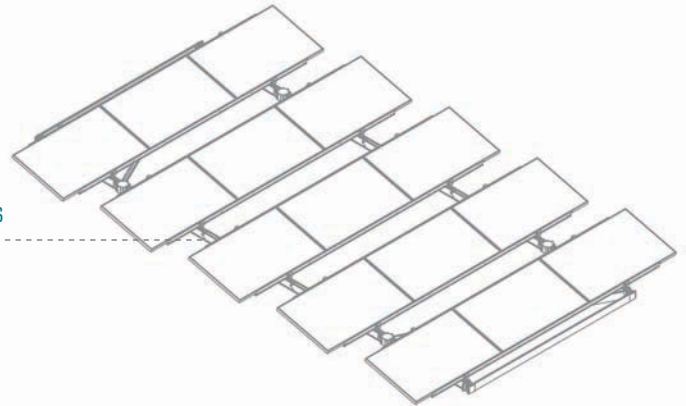
P2 TECH SPECS



GENERAL P2 MICRO BLOCK INFO

Application:	Low-Slope Roof, Planar Ground. All Structural Framing and Roof Surface Types
PV Modules:	All Standard 50, 60, 72-cell crystalline modules including: Mitsubishi, Suntech, Yingli, BP, REC, Solon etc.
Module Orientation:	Landscape in panels of 2, 3, or 4
Tilt Angle:	Standard Tilt Angles, of 10, 14, 18, 22 & 25. Any tilt angle is available
Wind Zones:	Up to 130
Warranty:	15 Years
Materials:	All highest-quality 6061-T6 AA Extrusions - 18-8 Stainless Steel Fasteners
Wind Load Design Basis:	ASCE 7 - Method 3
Design Basis Wind Speed:	ASCE 7- Figure 6-1

EXTRUDED E-W PANELIZATION BEAMS



* We comply with CAL FIRE sub-array and aisle requirements

P2 PRODUCT SPECS

GROUND MOUNT

ROOF MOUNT

Chord (N-S) minimum height over surface, inches	N/A	4.5
Panelization Beam (E-W) min height over surface, inches	N/A	11.0
Minimum distance between module rows, inches	14.0	12.0
Weight per PV module, pounds	16.5	16.5
Average weight PSF	2.25	2.25
Minimum roof set-back, feet	N/A	6 Min, 10 TYP
Ballast block dimensions	16" to 36"	N/A
Height above ground / roof	Less than 1 Meter	4.5/11.0
Minimum/Maximum tilt angle, degrees	8.0/30.0	8.0/30.0
Spacing between columns	N/A	N/A

* Ballast Block Sizes dependent upon local wind loads



PERPETUAL POWER



About P2

Perpetual Power (P2) is an industry leader in delivering premium class photovoltaic mounting systems. Initially established in 2006 as a solar integrator, P2 understands the subtleties and nuance of commercial and utility scale solar development. We strive to build upon our roots by delivering high quality mounting solutions that minimize installation times and slash downstream tangential costs. Each iteration and addition to our product suite takes into account feedback from our customers as we continue to make our products the most intuitive mounting solutions on the market.

All of our products were created by solar engineers and integrators with over 20+ years of solar design experience. Currently, more than 100+ MW of solar power are being generated utilizing products and systems designed by our engineers. The P2 Systems represent the culmination of this experience.

PERPETUAL POWER

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