

Technical Specification Sheet

Application: Fixed-Tilt Ground-Mount

Orientation: Landscape

Tilt: 20°

Material: HDPE

Wind: 135 mph (ASCE 7-22/7-16)

Snow: 200+ psf (9,500+ Pa)

25-Year Warranty



Physical Dimensions-Module Compatibility-Structural Performance Ratings

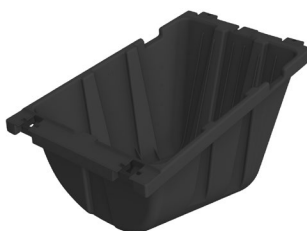
Parameter	Imperial	Metric
Overall Length	44.0 in	1117.6 mm
Overall Width	25.59 in	650 mm
Top Edge Height	29.84 in	757.8 mm
Low Edge Height	14.0 in	355.7 mm
Tilted Mounting Length	46.3 in	1176.1 mm
Bottom Base Length	31.83 in	808.6 mm
Unit Weight	23.8 lbs	10.8 kg
Module Width	44.1 – 45.2 in	1120 – 1150 mm

- ❖ Structural capacities meet code-based loads and site-specific engineering; final installation must comply with local requirements and include stamped engineering.
- ❖ UL compliant - non-conductive HDPE supports UL2703 certified bonding, grounding, and modules.
- ❖ Patent Protection: Protected by one or more issued U.S. patents.

Ballast Weight Guidelines

Depth (in)	Volume (cu yd)	Dirt (lbs)	Sand (lbs)	Gravel (lbs)
7	0.12	290	312	328
10	0.16	413	444	468
11	0.18	455	489	515
13	0.21	538	579	609
14	0.22	580	623	655

- ❖ Ballast weights are guides only. Final requirements depend on site-specific engineering.



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PowerRack 1200

Patent Protected

Proven Bankability

Track Record

- Over 400 Installations in operation since 2018 across North America and Africa.
- Customer references can be provided upon request from rural electric cooperatives, regional and state-based utility and commercial-scale EPCs, developers, and end-users.

Wind Engineering & Durability

- National Lab of the Rockies (formerly NREL) tested for 2 years in the field at the National Wind Test Facility. PowerField easily survived a wind storm of 84 mph that severely damaged a nearby tracking system.
- Wind tunnel tested.
- Operational wind tolerance approximately 20 mph higher than conventional tracker or fixed-tilt systems.
- Engineering teams conducted multiple friction and loading tests in the field.
- Ballasted PowerField PowerRacks can weigh up to 740 lbs., and modules can be mounted with up to 3 PowerRacks per module. This ballasting weight, combined with the low profile, effectively anchors the modules to the ground without penetrating the surface.
- Ground anchors and wind breaks can also be incorporated for additional wind durability.

Electrical Efficiency

- National Lab of the Rockies (formerly NREL) tested for electrical efficiency / thermal loss vs. a rooftop open railing system. PowerField electrical production proved to be equal to or greater than the comparison.
- Production data from utility and commercial scale PowerField systems that are currently in operation matches or outperforms the PV Watts estimates.

Structural Durability

- Manufactured in the USA at a top-tier contract manufacturer.
- High Density Polyethylene (HDPE) material is well established to last for 25 - 100 years.
- PowerField uses a virgin HDPE that is infused with a UV Protective Additive for additional protection from the sun.
- Finite Element Analysis (FEA) was performed multiple times for product manufacturing.
- Material formulation analysis conducted by expert consulting from a former product engineer from Battelle and Dupont.
- Extensive tensile strength testing by a top-tier material testing laboratory.

Seismic Durability

- Certified by a registered professional engineer in the state of California.



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