PowerRack 1200

Patent Protected

powerfield

MADE IN USA

Technical Specification Sheet

Application: Fixed-Tilt Ground-Mount
Orientation: Landscape
Tilt: 20°
Material: HDPE

Wind: 217 km/h (ASCE 7-22/7-16)
Snow: 9,500+ Pa
25-Year Warranty

Physical Dimensions-Module Compatibility-Structural Performance Ratings

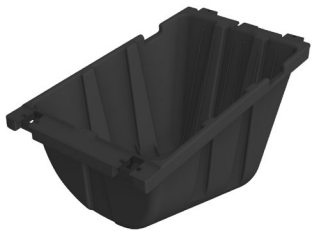
Parameter	Metric	Imperial
Overall Length	1117.6 mm	44.0 in
Overall Width	650 mm	25.59 in
Top Edge Height	757.8 mm	29.84 in
Low Edge Height	355.7 mm	14.0 in
Tilted Mounting Length	1176.1 mm	46.3 in
Bottom Base Length	808.6 mm	31.83 in
Unit Weight	10.8 kg	23.8 lbs
Module Width	1120 – 1150 mm	44.1 – 45.2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

- 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 (mm)	Volume (m3)	Dirt (kg)	Sand (kg)	Gravel (kg)
178	0.092	131.5	141.5	148.8
254	0.122	187.3	201.4	212.3
279	0.137	206.4	221.8	233.6
330	0.160	244.0	262.6	276.2
356	0.168	263.1	282.6	297.1

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



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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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