

PowerRack 1200

powerfield

Patent Protected

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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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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