

AllEarth Solar Tracker

Designed, Engineered, and Built in Vermont

Fifteen years ago, we took inspiration from a field of sunflowers as they turned their heads to follow the sun throughout the day. The result: The AllEarth Solar Tracker, which features a dual-axis mount with built in GPS technology for automatic calibration and consistent angling towards the sun. By capturing all of the day's solar potential, AllEarth's Solar Tracker provides up to 40% more energy than a fixed roof or fixed ground mount system.



Tilts & Rotates

AllEarth Renewables is the nation's leading dual axis solar tracker company, with over 7,000 installations across the country—over half of these in Vermont. The AllEarth Solar Tracker is the go-to product for a high-value, high efficiency, American-made solar solution for both commercial and residential systems.

Our dual axis trackers follow the sun to produce up to 40% more energy than fixed solar panels.



Complete Solution

- 360° dual axis tracking system
- Tracker and components shipped on a single pallet
- Fast, efficient installation process
- No distributors

• Ongoing technical support

Smart Design

- Proven, standardized system design
- Modular approach, easily scalable for large and small projects
- Advanced hydraulic drive for rugged, durable performance

Quality & Reliability

- Designed, engineered and built in Vermont USA
- Individually tested pre-engineered system
- GPS tracking controls and wireless communication
- Industry-leading wind rating
- Fast delivery





AllEarth Solar Tracker Technical Specifications by Model

Unique Features The AllEarth Solar Tracker is a complete grid-tied, dual axis solar electric system suitable for both commercial and residential settings. Unlike a rooftop system, the tracker does not require a load-supporting, south-facing roof, which eliminates the risk of roof leak, mold or structural damage. Because the tracker uses GPS technology to follow the sun throughout the day, it also produces up to 40% more energy than fixed systems.



AllEarth Renewables Dual Axis Solar Tracker Comparison			
	S20	S24	L20
Number of modules	20	24	20
Module area	352 ft ²	423 ft ²	417 ft ²
Maximum height	18 ft	20 ft*	17.5 ft
Height when flat	11 ft	11 ft	10 ft
Width	21.5 ft	21.5 ft*	25.7 ft
Weight (complete system)	2,900 lb	3,100 lb	3,050 lb
Minimum clear diameter	27 ft	27 ft	31 ft
Module configuration	4 x 5	4 x 6	4 x 5
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^{*} Depends upon module dimensions

Inverter	Compatible with both string and micoinverters
Wind loading	Wind-tunnel tested, stamped to ASCE 7-10 120 mph
Modules supported	Most commercially available 60 and 96 cell modules (S20, S24) and 72 cell modules (L20)
Structure / materials	Freestanding, mast mounted, galvanized steel components
Motor type	180 watt hydraulic power unit (S20, S24, L20) and two 88 watt DC electric drive motors
Yaw drive (azimuth)	Ring/worm gear with hydraulic motor (S20, S24, L20) and ring/worm gear with electric motor
Tilt (elevation)	Hydraulic Cylinder (S20, S24, L20) and electric screwdrive
Yaw range E/W	0 to 360°
Tilt range N/S	0 to 360°
Solar tracking method	GPS, sun calculation based, microprocessor controller
Wind protection	3-cup anemometer sensor, automatic algorithm, stows flat at 30mph
Annual power consumption	<1% of system output
Connection type	Grid-tied (S20, S24, L20) grid-tied / batter back up
Communication	Integrated RF radio (S20, S24, L20) and integrated RF radio wi-fi, cellular
Foundation types	Precast concrete, steel riser, helical pile
Nightime stow	Stows flat at sunset
Module attachment	Innovative high-speed bottom-mount clamping technology; fast and safe; no gaps between modules
Warranty	10 year limited warranty
Manufacturing location	USA





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