Trina Tracker

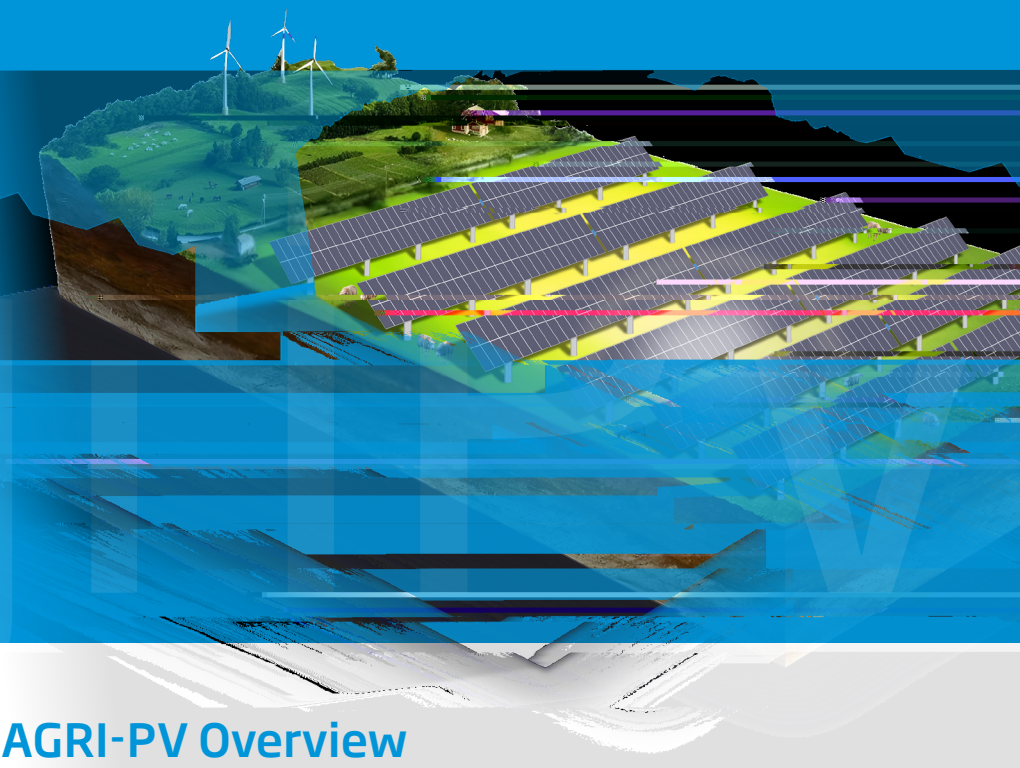
# AgriPV

Solar Energy Meets Agriculture

Trinasolar

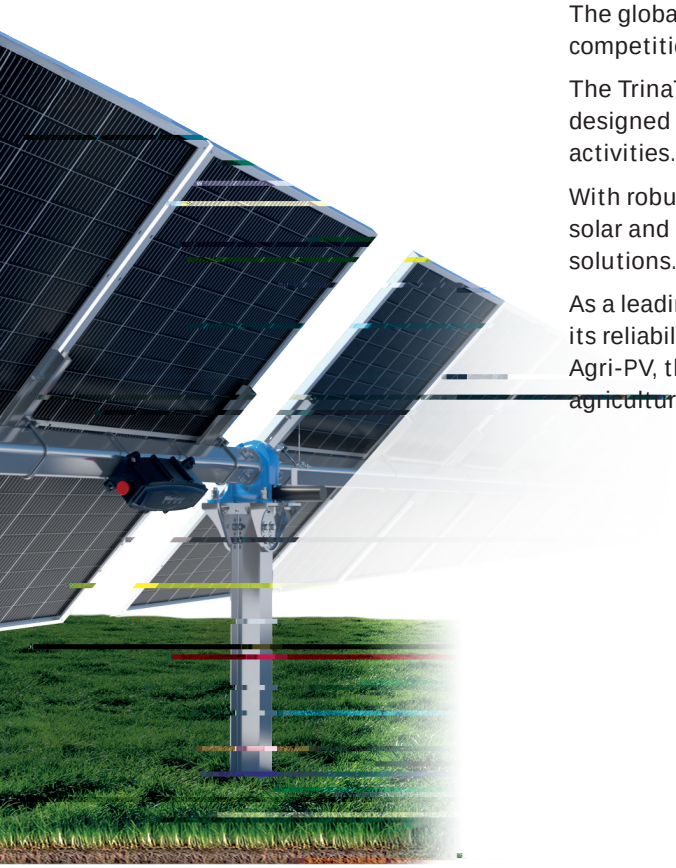
TrinaTracker

# AgriPV Solution



Wind Tunnel Tested

## AGRI-PV Overview



The global demand for renewable energy and food production has intensified competition for land use, particularly in regions with limited arable land.

The TrinaTracker Vanguard Family is a versatile, high-efficiency solar tracker designed to address this challenge by combining energy generation with agricultural activities.

With robust performance, advanced control systems, and adaptability for co-located solar and agricultural operations, it serves as a cornerstone of sustainable Agri-PV solutions.

As a leading tracker solution, the Vanguard Family has earned global trust for its reliability and high performance in utility-scale solar projects. Now applied in Agri-PV, this proven product ensures efficient dual land use for energy and agriculture, delivering a dependable foundation for sustainable development.

## AGRI-PV Specific Benefits

### Increased Land-Use Efficiency

Vanguard Family maximizes land-use e□ciency by integrating energy production and farming, making it ideal for regions where agricultural land is valuable.

### Improved Crop Yields and Microclimates

Solar panels provide shading for crops, helping to reduce soil evaporation by up to 20%, leading to improved water retention and more favorable conditions for crops and cattle.

### Bifacial Module Compatibility

Vanguard Family is fully compatible with bifacial solar modules, capturing additional energy from sunlight re□ected o□ the ground or crops. Studies show bifacial modules can increase overall energy generation by up to 15% in Agri-PV applications.

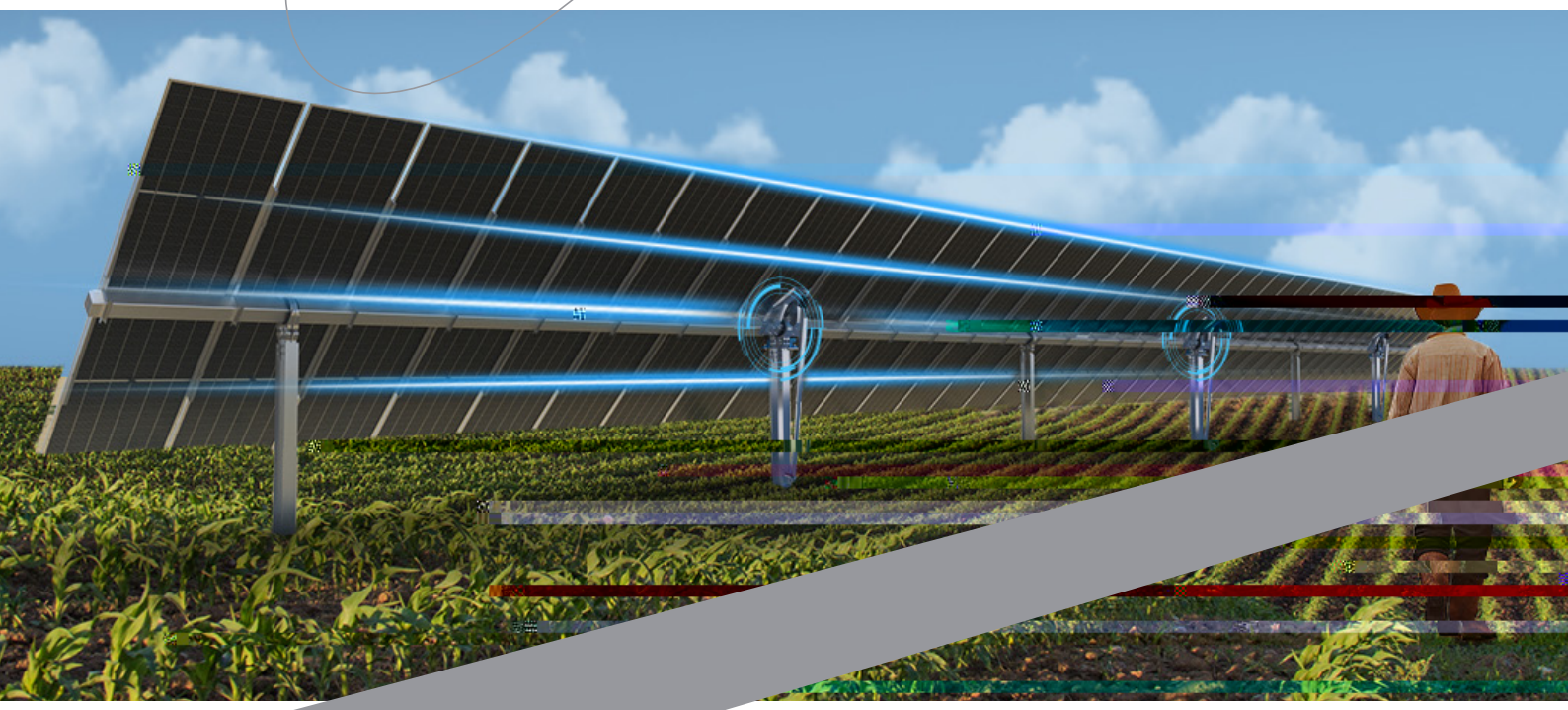
**Warranty period of 10 years for the structural set of elements which comprises the tracker and have been supplied by Trinasolar.**

**Warranty period of 5 years for commercial components.** (Including but not limited to drive system electrical system, bearing set, fasteners, etc.)

TÜV SÜD Product Service

SGS

| GENERAL FEATURES | VANGUARD 1P | VANGUARD 2P |
|---|---|---|
| Solar tracker type | Single row, Single-Axis | Single row, Single-Axis |
| Module Configuration | Singular module in portrait (1P) | Two modules in portrait (2P) |
| Maximum Tracking Range | ±60° (120°) | ±55° |
| Ground Clearance (Tracking Angle) | 2.1m (±60°) | 1m(±55°) / 1.3m (±48°) /2.1m (±25°) |
| Driver | Slewing drive | Multi-motor linear actuator |
| Terrain Adaptability | 15% W-E, 15% N-S | 15% W-E, 15% N-S |
| Wind and Snow Loads Tolerance | Tailored to site requirements | Tailored to site requirements |
| GCR | ≥ 25% | ≥ 25% |
| Maximum pitch | 9.6 meters | 13.5 meters |



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