

SINGLE AXIS TRACKER



Effortless Installation

Offers easy installation with wide tolerance, bolted connections, and compatibility with all framed PV modules, minimising setup time.

Intelligent Control

Features wireless connectivity, astronomical tracking, and a backtracking algorithm for efficiency, with seasonal - adaptive programming and maintenance logging.

Control Characteristics	Controller Type: Independent Control Ground Coverage Ratio: 30% - 50% *
Drive and Motor Specifications	Drive Method: Slew drive Daily Energy Consumption: 0.05 kWh - 0.06 kWh Backup Battery Specifications: 4 Ah - 6 Ah Lithium battery Battery Management System: <ul style="list-style-type: none"> • Constant Current, Constant Voltage (CC / CV) battery charger module • Temperature compensated charging algorithm to protect battery and improve lifespan • Integrated battery capacity monitor Motor Power: 126 W / 24 VDC
Control System Specifications	Tracking Method: <ul style="list-style-type: none"> • Closed-loop active tracking with astronomical tracking algorithm Accuracy of Tracking: $\pm 1^\circ$ Tracker Controller Power Supply Options: <ul style="list-style-type: none"> • String powered (200 VDC - 1500 VDC) • Dedicated PV module (28 VDC - 48 VDC, ≥ 60 W) • Grid powered (220 VAC) Communication System: LoRa® / Zigbee wireless, RS485 (Half duplex), CAN 2.0 wired communications Shadow Prevention: Site Specific Backtracking * Wind Protection: Protection initiates at 18 m/s * Night Mode: Panels return to Stow Position at night * Data Logging: Interface capabilities with commercial data logging equipment
Dimensions Specifications	Tracker Table Length: Maximum of 90 m * PV Module Mounting Array Configurations: 1 Portrait Configuration: <ul style="list-style-type: none"> • Independent tables • Linked Master and Slave tables
Mechanical Specifications	Tracking Range: $\pm 45^\circ$ to $\pm 60^\circ$ (GCR dependent) Wind Speed Resistance: As per SANS10160 - 3 * Structural Materials: Structural Steel Bearing Type: Low Friction Polymer, Self-Lubricating Bushing Foundation Types: Ramming, Pre-drilling Topography Flexibility: Up to 15% N - S / E - W 15% (E - W angle is recommended to be as horizontal as possible to maximize production potential) Coating Specs: <ul style="list-style-type: none"> • Pre-Galvanised • Hot Dipped Galvanised Sans 121:2000 and ISO 1461 • Duo-Coat
Operation and Maintenance	Annual review as per schedule (or preventative maintenance from data and event logging)
Warranty	10 years standard (Structural) 5 years (Dynamic components)

(*) Customizable



Advanced Design
Incorporates a high torque slew drive with 120° motion and terrain adaptability.



Low Maintenance
Designed for minimal upkeep with IP65 protection, annual checks, and a lubrication-free system for reliable, long-term performance.