

AXIAL

tracker

1V**Twin**



THE **SMART** CHOICE

www.axialstructural.com

AXIALtracker^{1V}Twin

TECHNICAL DATASHEET

BASIC SPECS

- TRACKING SYSTEM:** HORIZONTAL AXIS E-W
- COMMUNICATION:** ZIGBEE / RS485
- SYSTEM VOLTAGE:** 1000 Vdc / 1500 Vdc
- TRACKING RANGE:** 110° (±55°)
- DRIVE SYSTEM:** ENCLOSED SLEWING DRIVE DC MOTOR, 24 (24VDC)
- POWER SUPPLY:** SELF-POWERED / GRID POWERED FOR LOW TEMPERATURES REGIONS
- TEMPERATURE RANGE:** 0° +55° SELF-POWERED / -40° +50° GRID POWERED
- INDEPENDENT ROWS:** SHARED TRANSMISSION EACH TWO ROWS
- GCR:** TYPICAL RANGE 28% -50% , DEPENDING ON SITE CONDITIONS
- TRACKING METHOD:** SOLAR ALGORITHM NREL SPA WITH 3DBACKTRACKING
- ALLOWABLE WIND SPEED:** UP TO 70KM/h / ACCORDING TO LOCAL REGULATIONS FOR STOW POSITION
- ALLOWABLE SLOPE:** 15%
- FOUNDATION SYSTEMS:** AD HOC DESIGN. RAMMING AS STANDARD

DIMENSIONS

CONFIGURATIONS*

1Vx54 (EACH TRACKER ROW)	62.2 m.	2.2 m.
1Vx60 (EACH TRACKER ROW)	68.8 m.	2.2 m.

* Available in other configurations/ Aproximate dimensions

- GROUND CLEARANCE:** 0,5 m. (55°) - 1,28 m. (0°) AS STANDARD
- CAPACITY:** UP TO 60 PANELS. COMPATIBLE WITH MOST UTILITY SCALE PV MODULES
- SLEWING DRIVE:** 5 YEARS
- ENGINE:** 5 YEARS
- ELECTRONICS:** 5 YEARS
- BATTERY:** UP TO 10 YEARS
- STRUCTURAL WARRANTY:** UP TO 25 YEARS
- CORROSION WARRANTY:** UP TO 25 YEARS

WARRANTY

KEY FEATURES

HIGHLY ADAPTATIVE AND SAFE

EFFICIENT AND SIMPLE FIELD INSTALLATION

UP TO 70 KM/H OPERATIONAL WIND SPEED

-20% SUPPLY & MAINTENANCE COSTS

TRANSMISSION:

REDUCE CLEARANCE AND INCREASED ROTATION ACCURACY IN THE TRANSMISSION COMPARED TO OTHER SYSTEMS

INCREASED EFFICIENCY BY SHARED TRANSMISSION EACH TWO TRACKERS:

THE POWER TO PRODUCE THE MOVEMENT OF BOTH TRACKERS IS GENERATED FROM ONE SINGLE MOTOR, BUT THE EFFECTS OF WIND LOADS ARE DISTRIBUTED BETWEEN BOTH STRUCTURES THROUGH INDEPENDENT SLEWING DRIVES



Wind Dynamics Studies
Tested in Wind Tunnel
CFD Studies

