

The image shows a solar panel array with a tracking mechanism. The panels are dark and rectangular, mounted on a metal structure. The tracking mechanism consists of a horizontal pipe with a red and white motorized joint. The background is a dark, stylized landscape with yellow wireframe mountains and a grid pattern. The overall scene is illuminated from the side, creating strong shadows and highlights.

AXIAL

tracker | 1vTwin

TECHNICAL DATASHEET

THE **SMART** CHOICE

www.axialstructural.com

- 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

KEY FEATURES

HIGHLY ADAPTATIVE AND SAFE

EFFICIENT AND SIMPLE FIELD INSTALLATION

UP TO 70 KM/H OPERATIONAL WIND SPEED

-20% SUPPLY & MAINTENANCE COSTS

TRANSMISSION:

HOMOKINETIC TECHNOLOGY

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

CONFIGURATIONS*

1Vx54 (EACH TRACKER ROW)	62.2 m.	2.2 m.
1Vx60 (EACH TRACKER ROW)	68.8 m.	2.2 m.
1Vx72 (EACH TRACKER ROW)	83.9 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 72 PANELS. COMPATIBLE WITH MOST UTILITY SCALE PV MODULES

SLEWING DRIVE: 5 YEARS

ENGINE: 5 YEARS

ELECTRONICS: 10 YEARS

BATTERY: UP TO 10 YEARS

STRUCTURAL WARRANTY: UP TO 25 YEARS

CORROSION WARRANTY: UP TO 25 YEARS

TECHNICAL OFFICE
info@axialstructural.com
+34 901 233 814

