

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*

CAPACITY: 2 STRINGS PER ROW. COMPATIBLE WITH MOST UTILITY SCALE PV MODULES

GROUND CLEARANCE: 0,5 m. (55°) - 1,28 m. (0°) AS STANDARD

* Available in different configurations/ Approximate dimensions

WARRANTY

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

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

