

# AXIAL tracker

**SMART DESIGN. ADVANCED SAFETY**

**WITH BLOCKING SYSTEM**



THE **SMART** CHOICE

[www.axialstructural.com](http://www.axialstructural.com)



### BASIC SPECS

TRACKING SYSTEM: HORIZONTAL AXIS E-W  
 COMMUNICATION: ZIGBEE / RS485  
 TRACKING RANGE:  $\pm 55^\circ$   
 DRIVE SYSTEM: ENCLOSED SLEWING DRIVE DC MOTOR, 24 (24VDC)  
 POWER SUPPLY: SELF POWERED AS STANDARD / GRID POWERED FOR LOW TEMPERATURES  
 INDEPENDENT ROWS: YES  
 SOLAR ALGORITHM: NREL SPA  
 PROTECTION GRADE: MIN IP65  
 STOW POSITION: LOW TILT ANGLE  
 TRACKER STOWING TIME: 6 MINUTES

### CALCULATION CRITERIA

GROUND CLEARANCE: 0,5 m. ( $55^\circ$ ) AS STANDARD  
 WIND RESISTANCE: 50 Km/h ( $\pm 55^\circ$ ) / ACCORDING TO LOCAL REGULATIONS FOR STOW POSITION  
 SLOPE NORTH-SOUTH: 8,5 % N-S SLOPES STANDARD TRACKER / 15 % N-S MAX SLOPES REINFORCED TRACKER  
 SLOPE EAST-WEST: UNLIMITED  
 TEMPERATURE RANGE:  $0^\circ + 55^\circ$  SELFPOWERED MODE /  $-40^\circ + 50^\circ$  GRID POWERED MODE  
 FOUNDATION SYSTEMS: RAMMING AS STANDARD  
 MAXIMUM GROUND COVERAGE RATIO: USUAL RANGE: 28%-40% CONFIGURABLE  
 MAXIMUM OPERATING ALTITUDE: 2000 m.  
 MAXIMUM TRACKING ERROR:  $\pm 2^\circ$

### DIMENSIONS

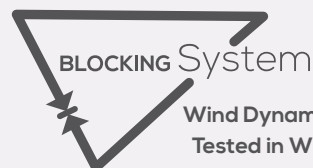
CONFIGURATIONS\*

	LENGTH	MAXIMUM HEIGHT	WIDTH
2V28	28.7m	3.8m	4m
2V45	50m	4.3m	4.6m

\* Other configurations available upon request. Each project and configuration is studied ad hoc.

### WARRANTY

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



Wind Dynamics Studies  
 Tested in Wind Tunnel  
 CFD Studies



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