STS
SOLAR TRACKING SYSTEMS

PATHFINDER

DUAL AXIS SOLAR TRACKER

SOPHISTICATED TECHNOLOGY SIMPLIFIED MANUFACTURING

WWW.SOLARSTS.COM
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PATHFINDER | TECHNICAL DATASHEET

MAIN FEATURES

Tracking System: Linear Dual Axis tilt up to +/- 55 °
Tracking Control: NREL solar tracking Algorithm
Tracker: Double row portrait installation, supports up to 48 PV modules
Material: Hot dip galvanized steel and aluminum
Height: Up to 2,50 m in horizontal position
Communication: Between master and slave controllers by Wifi or RS-485
Compatibility: Any type of PV modules, high rise installation system for bifacial PV modules
Backtracking: Adjustable automatic backtracking
Positioning: 3D Inclinometer (no additional sensors needed)
The structural design of the STS tracking system meet the requirements of EUROCODE, DIN, EN, AISC, BC as well as other international standards

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SERVICE PLANS AND MAINTENANCE

Onsite & Remote :
Advisory, Operation, Tracker Maintenance & Monitoring System

LINEAR DRIVES

Voltage of motor: 24 V DC
Certificate: ISO 14001, ISO 9001, CE test report, EMC test report
IP rating: IP66 test report
Operation temperature range: -30 °C to +70 °C

ELECTRONICS

Controller : Field Master and Slave controllers are communicating but working independently
STS Monitoring System: Integrated platform for initialization and remote worldwide control and monitoring
Rohs Compliant
ISO 9001

WARRANTY

Construction: 10 years (extendable)
Electronics: 2 years (extendable)
Motors: 2 years extendable)

STEEL STRUCTURE

The steel production EN ISO 9001 certifies quality assurance system and provides full traceability of all products and processes, while its environmental management and health & safety systems are EN ISO 14001 and certified respectively.

WEATHER

Wind Resistance: Adjustable to local weather conditions
Operating Temperature: -40 ° C to +70 °C
Clean/Storm/Vibration: Automatic detection, horizontal position process (adjustable)
Additional: Snow and Hail sensors, automatic safety-positioning process (adjustable)