

TECHNICAL DATASHEET

QUICK INSTALLATION

 \checkmark

 \checkmark

 \checkmark

 \checkmark

TSP SAFETY SYSTEM, EASY SAFETY HORIZONTAL POSITION FOR MAINTENANCE

HIGH TECH SOFTWARE AND PLATFORM

HIGH RISE SYSTEM FOR BIFACIAL PANELS

WWW.SOLARSTS.COM

Eleftheriou Venizelou 32-34 Melissia 15127, Greece www.solarsts.com email: info@solarsts.com

TRACKING SYSTEM

Linear Single Axis East - West tilt system

SINGLE AXIS SOLAR TRACKER





TECHNICAL DATASHEET

MAIN FEATURES

TRACKING SYSTEM: Linear Single Axis tilt up to +/- 55 °

TRACKING CONTROL: NREL astronomical algorithm

TRACKER: (2P) Double row portrait installation, supports up to 80 PV modules

ACCURATE: +/- 0.1 degree

TERRAIN SLOPE: +/- 6 degree (adjustable for more)

MATERIAL: Steel S235 + HDG and Aluminum

WEIGHT: up to 50 ton/MW (without PV modules)

HEIGHT: Up to 2,50 m in horizontal position

CENTRAL AXIS: Box profile SHS 120 steel S235+HDG

PURLINGS : Box profile RHS 80 steel S235 + HDG

COLUMNS: IPE 140 steel S235 + HDG

ACCESSORIES: Steel plates S235 + HDG

BOLTS: Galvanized Steel bolts 8.8

CLAMPS: Aluminum clamps and inox screws

DAMPER: Solar Damper 1.000N, 2 Damper to each row

ANEMOMETER: 3 blade Industry standard version

COMMUNICATION: Ethernet port with Modbus TCP interface

COMPATIBILITY: Any type of PV modules, high rise installation system for bifacial PV modules

POSITIONING: 3D Inclinometer (no additional sensors needed)

The structural design of the STS tracking system meet the requirements of EUROCODE, DIN, EN as well as other international standards

SERVICE PLANS MAINTENANCE

ONSITE & REMOTE : Advisory, Operation, Tracker Maintenance & Monitoring System

LINEAR DRIVES

VOLTAGE OF MOTOR: 24 V DC

FORCE: 24.000N, static=70.000N

ELECTRONICS

CONTROLLER :

Microprocessor controllers and Internet communication technologies Master and Slave controllers 12-24VDC - 0,4/1,0W with Modbus/RS485 or WIFI interface

INCLINOMETERS: 3D MEMS iniclinometer sensors 5VDC

OBSERVE-X MONITORING SYSTEM: Integrated platform for initialization and remote worldwide control and monitoring

Eleftheriou Venizelou 32-34 Melissia 15127, Greece www.solarsts.com email: info@solarsts.com

CERTIFICATE: ISO 1401, ISO 9001, CE test report, EMC test report

IP RATING: IP66 test report

ROHS COMPLIANT

ISO 9001

WARRANTY

CONSTRUCTION: 10 years (extendable)

ELECTRONICS: 5 years (extendable)

MOTORS AND DAMPERS: 5 years (extendable)

WEATHER

WIND RESISTANCE:

up to 33m/s storm position (up to 17m/s operational) Adjustable to local requirements

WEATHER CONDITIONS CLEAN/STORM: Automatic detection, horizontal position process (adjustable)

ADDITIONAL: Snow and Hail sensors

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.

OTHER FEATURES

BACKTRACKING: Standard (Adjustable)

BIFACIAL PANELS:

Standard High rise

CLEAN MODE: Standard (Adjustable)

IRRADIATION, **SNOW AND HAIL SENSORS:** Standard Optional

REMOTE MONITORING : Optional

LOCAL ACCESS:



WWW.SOLARSTS.COM