

## SOLAR TRACKER SYSTEM

### MAIN SPECIFICATIONS

Tracking System	Horizontal single-axis with independent rows tracking
Tracking Range	Up to 120° (±60°)
Driving System	Enclosed slewing drive, 24 VDC Motor
Power Supply	220VAC - 24VDC Adapter
Panels per Tracker	72 panels, up to 108 panels
System Voltage	1,000 V or 1,500 V
Structure Material	Hot dipped galvanized / Pre-galvanized steel
Daily Energy Consumption	< 50 Wh
Structure Design	Wind speed 100 km/h (28 m/s) (compliance : TS 498)
Wind Protection	Wind speed > 18 m/s
Temperature Range	-20°C to +55°C
Supported Panels	Every commercially available
Compliance	EN 62817
North-South Slope	Up to 10%
East-West Slope	Unlimited

### ELECTRONIC CONTROLLER UNIT SPECIFICATIONS

Control Method	One master controller per plant and one controller per tracker
Communication	Wireless RF communication network
Weather Monitoring	Standard wind measurement
Backtracking	Yes
Tracking Algorithm	GPS based astronomical algorithm
Tracking Accuracy	≤ 1°

### WARRANTY

Structure	10 years
Motor	5 years
Electronics	2 years

Calculating the sun position with a precision of 0.0003°

Power consumption is kept minimum by taking electronic components into sleep mode.

With the wireless communication system, each array can be moved independently, so maintenance and panel cleaning can be done easily.

The position information is transmitted by wireless data transmission from the central control unit to all arrays.

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