

SUNDANCER® SINGLE AXIS SOLAR TRACKER SYSTEM

TECHNICAL SPECIFICATIONS

Tracking System	Horizontal single-axis with independent rows tracking
Tracking Range	Up to 110° (±55°)
Driving System	Enclosed slewing drive, 24 VDC Motor
Power Supply	220VAC - 24VDC Adapter
Panels per Tracker	60 panels, up to 108 panels
System Voltage	1,000 V or 1,500 V
Structure Material	ST37 Steel hot dipped galvanized / Pre-galvanized steel
Daily Energy Consumption	< 50 Wh
Structural Design	Wind speed 100 km/h (28 m/s) (compliance: TS 498)
Wind Protection	Software Controlled. Wind speed > 18 m/s
Temperature Range	-25°C - +65°C
Humidity Range	5% - 95%
Protection Class	IP67 (High-grade water resistance and dust protection)
Supported Panels	Every commercially available
Compliance	EN 62817
North-South Slope	Up to 5%
East-West Slope	Unlimited

ELECTRONIC CONTROLLER UNIT SPECIFICATIONS

Control Method	One master controller per plant and one controller per tracker
Communication	Wireless Radio Frequency (RF) communication network
Weather Monitoring	Standard wind measurement
Backtracking	Optional
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.

Efelyum Elektronik Yazılım San. Tic. Ltd. Şti.

Çamtepe Mah. Mahmut Tevfik Atay Bulvarı

Gaziantep Teknopark A/203 Şahinbey / Gaziantep / Turkey

+90 342 360 08 20

info@efelyum.com

<https://www.gunestakip.com>

EFELYUM®

ELEKTRONİK YAZILIM SAN. TİC. LTD. ŞTİ.