**DEGERtraker** 9000NT

**DEGERtraker** 7000NT

**DEGERtraker** 6000NT

**DEGERtraker** 5000NT/HD/CT

**DEGERtraker** 3000NT/HD/CT

**DEGER TOPtraker** 40NT

**DEGER TOPtraker** 8.5

# DATA SHEET

# **DEGERtraker** 5000NT
# **DEGERtraker** 3000NT

## DUAL AXIS TRACKING SYSTEM

DEGERENERGIE
SOLAR TRACKING SYSTEMS

MLD
MAXIMUM LIGHT DETECTION

Dual-axis, active tracking systems, suitable for all common solar modules

### RANGE OF SERVICES

- Yield increase of approx. 45 percent for all PV-applications
- Simple plug-and-play installation
- Decentralized control
- Designed in Germany

**for open land**

**for open land**

| | **DEGERtraker** 5000NT | **DEGERtraker** 3000NT |
|---|---|---|
| Rated power (depending on module type) | 4,000 ... 7,000 Wp | 2,000 ... 4,000 Wp |
| Module surface up to | 40 m² \| 430 sqft | 25 m² \| 269 sqft |
| Max. module surface | 8.3 m x 5.3 m \| 27.2 ft x 17.4 ft | 5.05 m x 5.05 m \| 16.6 ft x 16.6 ft |
| Rotation angle East – West | 300° | 300° |
| Rotating angle elevation | 20° ... 90° | 20° ... 90° |
| Control | MLD | MLD |
| Operating voltage | 80 ... 265 VAC / 80 ... 380 VDC | 80 ... 265 VAC / 80 ... 380 VDC |
| Drive East-West | Gear in drive head | Gear in drive head |
| Drive elevation | 1,000 mm stroke | 1,000 mm stroke |
| Power consumption: | | |
| Control mode | 1 Watt | 1 Watt |
| with running drive approx. | 15 Watt | 10 Watt |
| Internal consumption per year approx. | 8 kWh | 7 kWh |
| Mast length | 3.3 m ... 5.5 m \| 10.8 ft ... 18 ft | 3.3 m ... 5.5 m \| 10.8 ft ... 18 ft |
| Max. permissible wind velocity | 102 ... 300* km/h \| 63 ... 186* mph | 102 ... 300* km/h \| 63 ... 186* mph |
| Weight (without mast) | 650 kg \| 1,433 lbs | 600 kg \| 1,323 lbs |
| Materials | Steel, aluminum, stainless steel | Steel, aluminum, stainless steel |
| Article-No. | 1500001 | 1300001 |

*Designed with planning tool.

### SCOPE OF DELIVERY

Complete dual axis tracking system optionally with different mast lengths, solar module carrier system made of aluminum, matching the module type used, patented control MLD (Maxium Light Detection) with DEGERconecter, wind guard, foundation plan, assembly instructions.

### ADDITIONAL PERFORMANCES

Insurance packages, financing concepts and extended warranty, on-site service

## ADVANTAGES THAT PAY OFF

### TECHNOLOGY

- Efficiency because of intelligent tracking
- Maximum Light Detection control concept
- Premium product from the global market leader
- Lowest internal consumption

### SAFETY

- Globally best-selling system
- Long-term lowest running costs guaranteed
- Wind tunnel tested
- 99.9 percent availability
- Most experienced tracking system specialist

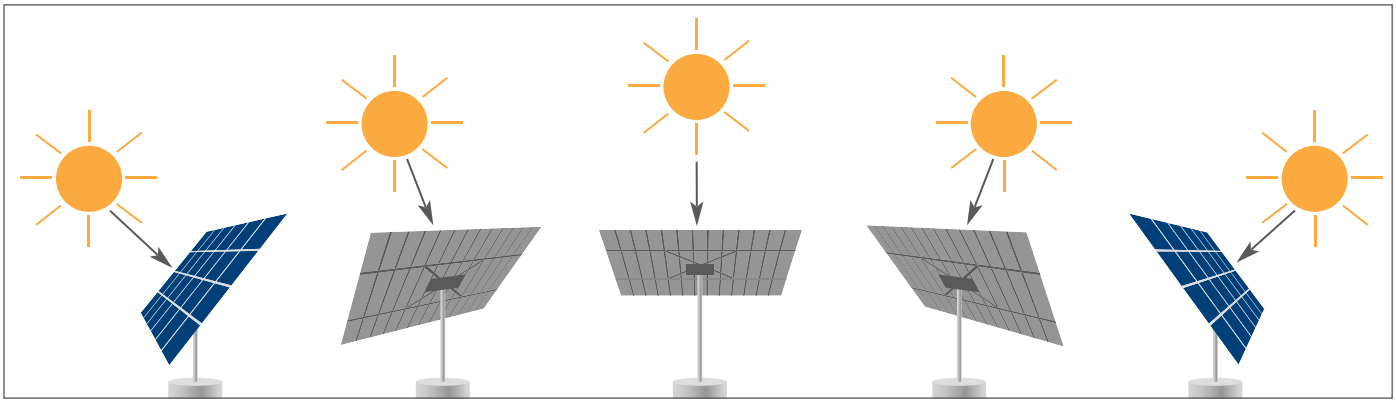
### PROFIT

- Investments and higher surpluses can be reliably calculated
- Most cost-effective electric power generation
- Fastest payoff
- Globally highest surplus yield among tracking systems

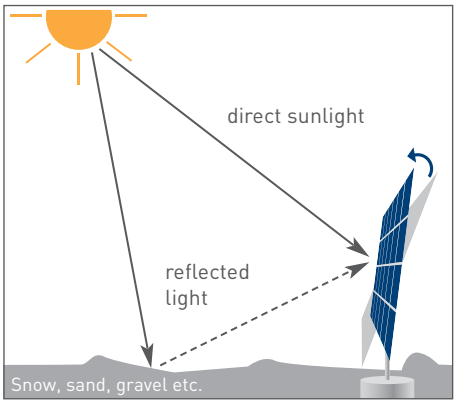
# THE INTELLIGENT CONTROL

## MLD TECHNOLOGY

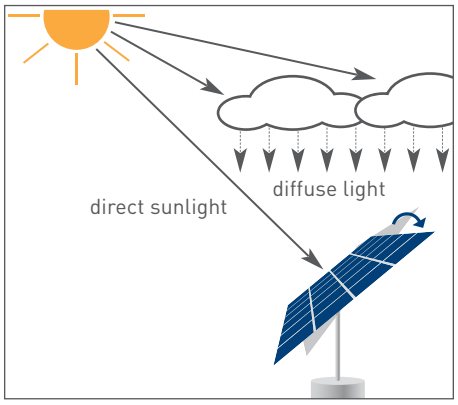

**The efficiency of a solar plant depends essentially on how much energy the solar cells are able to collect. The intelligent control of the DEGERtraker guarantees the optimal utilization of irradiation.**



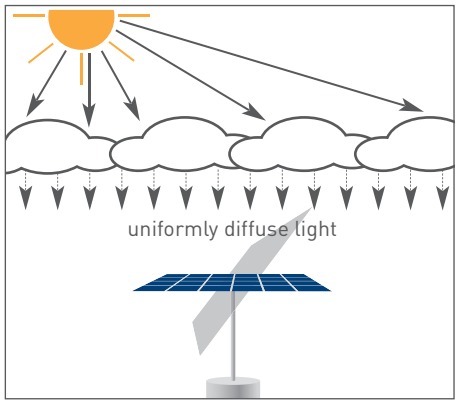
**Sunshine:** The DEGERtraker directly faces the sun all day.



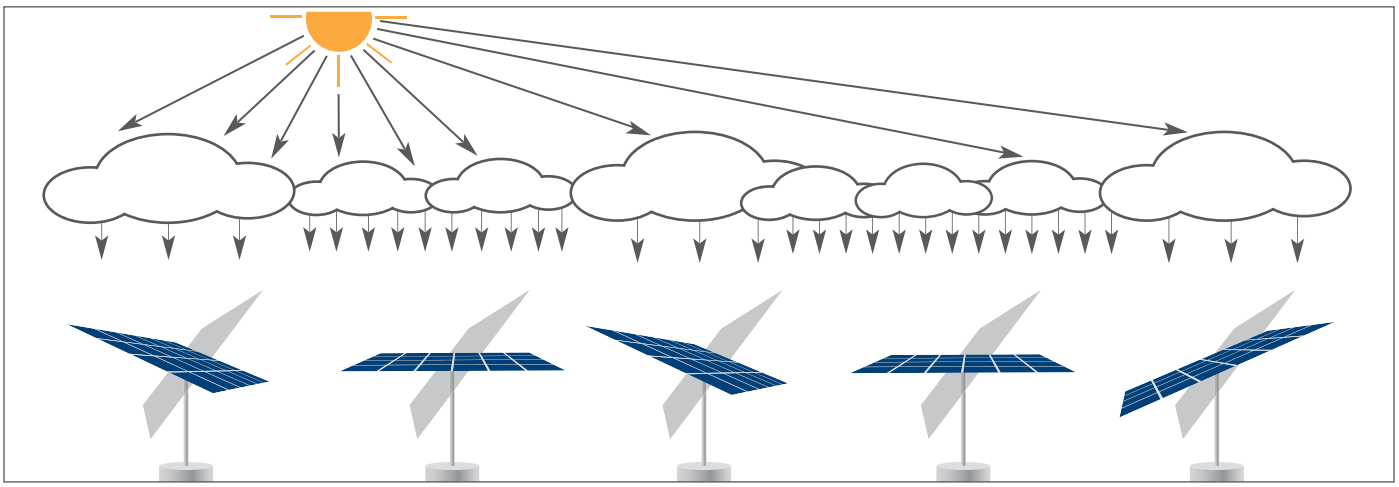

**Reflecting surface:** The DEGERtraker uses direct solar irradiation as well as energy from reflected light.




**Partly clouded:** In addition to the direct solar irradiation, diffused light is also used to maximize the effect.




**Overcast sky:** The DEGERtraker catches all the diffused light by moving to horizontal position.



**Varying light conditions:** Because of different levels of cloudiness, the light conditions in solar parks vary for each DEGERtraker. The individual control makes sure every DEGERtraker is optimally oriented to the brightest source of irradiation. This guarantees the highest energy yield possible.