



DEGERtraker 1600EL 5000NT 7000NT

date 11/05

Maximum solar yield ...

can be achieved with the DEGERtraker tracking system. By using the DEGERtraker tracking system, you are truly acknowledging the signs of our times: not only are you protecting our environment and nature but you are increasing your yield and thus achieving amortisation sooner.

Maintenance-free. Long-lived. Recyclable.

The systems designed to these exacting parameters are mass-produced in an ISO 9001-certified factory under environmentally sound conditions. DEGERtraker systems are truly 100% recyclable. Compared with rigid systems, the amount of electronic scrap after useful life is 40% lower!

Quick installation.

Pre-assembled components and detailed instructions allow installation within less than two hours (after the mast has been erected).

A technology to rely on.

The fact that the patent-protected control system and the utility model-protected mechanical system were awarded the inventor's prize of the federal state of Baden-Württemberg in South-Germany in 2000 shows that the DEGERtraker meets the demands of both experts and investors.

The proven static design of the DEGERtraker is based on DIN 1055-4 (8.86) and DIN 1056 (10.84).

Tracking system

for free-standing

applications,

on buildings and

for fitting on

different mast heights

Added yield 35-45%



Efficiency...

...using the example of a 100 kWp system in a region where rigid systems yield around 950kWh / kWp per year.

Rigid system yield in 20 yrs:	1,900,000 kWh at 43 ct/kWh	= €	817,000
DEGERtraker yield in 20 yrs:	2,660,000 kWh at 43 ct/kWh	= €	1,143,800

Profit	€ 326,800
Higher purchase price of DEGERtraker vs. rigid approx.	€ 60,000
End profit	€ 266,800

... greater yield – double the return

Available any time:

From your solar equipment retailer.

More sun for the money



The difference lies
in the technology.



DEGERtraker

Art.Nr.:

1600EL

28 11 160

5000NT

28 11 500

7000NT

28 11 700

date 11/05

	1600EL	5000NT	7000NT
For solar energy capacity	1.200... 2.200 Wp	4.000...6.000 Wp	6.000...9.000 Wp
Module area up to	16 m ²	40 m ²	60 m ²
Burden	5.000kg	10.000 kg	15.000 kg
Rotation angle east - west	360° with adjustable limit switches		
Elevation inclination angle	15...90°	10...90°	
Operating voltage	9...34 VDC, 40...370 VDC or 30...265 V~AC		24 VDC
Control unit	DEGERconector		
east - west drive	drive integrated in the power head		
elevation drive	850 mm stroke path	1.000 mm stroke path	1.100 stroke path
Internal power consumption: control mode	0,2 Watt		
with operating drives	5 Watt	7 Watt	9 Watt
Power consumption per year	1,5...2 kWh	3...4 kWh	3,5...4,5 kWh
Mast height	3,5...7,0 m	3,3...6,0 m	3,3...6,0 m
Weight (excluding mast)	350 kg	550 kg	850 kg
Maintenance	maintenance-free		
Geographic region	25th ... 90th degree of latitude		

Dual-axis, active tracking systems to suit most solar modules.

Scope of delivery

Complete dual-axis tracking system, mast, aluminium solar module carrier system to fit the respective module type, DEGERconector control electronics with energy converter for extremely economical operation, foundation plan, construction plan.

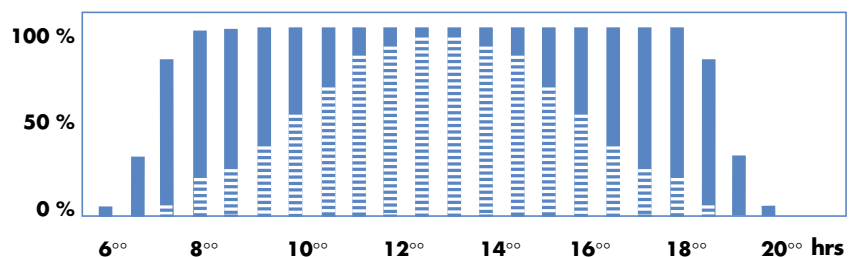


Functioning

The DEGERconector control unit detects the brightest spot in the sky and adjusts the module surface's position to face it. The DEGERtraker's mechanical system allows the accurate adjustment of the module surface to the sun all year round.

This technology also works in cloudy, rainy or foggy conditions. If, for instance, a day starts off sunny with clouds moving in from the west in the afternoon, the module surface will then move back slightly towards the east. On a completely overcast day, the module surface is adjusted to a horizontal position, or to face the point of the strongest irradiation. This allows to make the most out of adverse weather conditions.

Performance diagramm at the example of a sunny summer's day



More sun for the money

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