



## DEGERtraker 300EL

date 05/08

### **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 2000 and have since been further developed. This 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 (3/05) for installation up to 8m (wind load zone I).

**Tracking system  
for free-standing  
applications, on  
buildings and for  
fitting on different  
mast heights**



**Added yield 35-45%**

**Only possible with the  
patented system control  
DEGERconecter.**

### **Available at any time:**

From your solar equipment retailer.

**More sun for the money**



More sun for the money



# DEGERtraker

art.no.:

# 300EL

28 11 310

date 05/08

	<b>300EL</b>
<b>For solar yield</b>	100 - 400 Wp
<b>Module area up to</b>	3 m <sup>2</sup>
<b>Burden</b>	55 kg
<b>Rotation angle east-west</b>	200°
<b>Elevation inclination angle</b>	15...90°
<b>Control unit</b>	DEGERconecter
<b>Energy converter</b>	I or III
<b>east-west drive</b>	drive integrated in the power head
<b>elevation drive</b>	linear drive, 200 mm stroke path
<b>Power supply</b>	- directly from the solar module or string - from a battery for stand-alone-systems - from the AC grid - or from an additional 1-5 Wp solar module for selfsufficient systems
<b>Internal power consumption:</b>	
<b>control mode</b>	0,2 Watt
<b>during drive operation</b>	2 Watts
<b>Power consumption per year</b>	1 kWh
<b>Mast length</b>	mast not included, Ø 90mm
<b>Weight (without mast)</b>	30 kg
<b>Maintenance</b>	maintenance-free
<b>Geographic regions</b>	25th ... 60th degree of latitude

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

**Scope of delivery:**

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

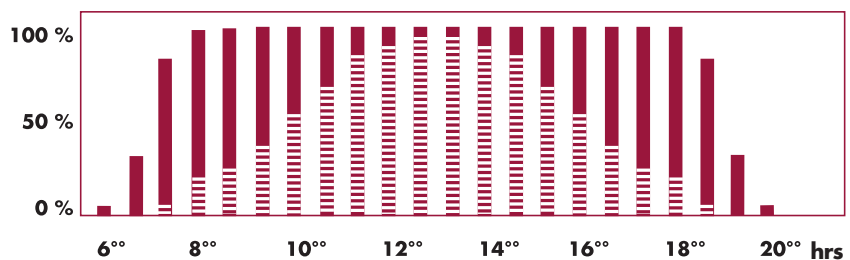


**Functioning**

The DEGERconecter 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 fixedly installed DEGERtraker



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Subject to technical changes for future improvements.

*The difference lies in the technology.*

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