

Increase in power of the SunCarrier series to 53 kWp now possible

The products developed by a+f GmbH for the SunCarrier product range are single-axis tracking systems whose module surface is permanently aligned to the current position of the sun by the vertical axis. Since 2004 the SunCarrier range has been continually refined and adapted to the requirements of the markets in Europe, Asia and America. This has resulted in the creation of the SunCarrier 160, SunCarrier 220, SunCarrier 250, SunCarrier 260 and SunCarrier 300 with a maximum module surface area of up to 287.5 square meters.

As a result the SunCarrier 300 produces an average power of approximately 38 kWp when configured with standard modules. Through the use of highly-efficient modules it is possible to achieve a power increase to up to 53 kWp, which proves highly cost-effective particularly in Mediterranean countries. In this way the energy supply for up to 30 households containing four people (consumption approximately 3,500 kWh/year) can be provided by a single SunCarrier at a location in southern Europe. Through the use of such highly efficient modules it is possible to achieve an increase in yield of up to 35% with the SunCarrier in comparison to conventional market solutions.

For the SunCarrier models it is also possible to continue using all standard module types and sizes. This enables individual project planning not only in line with local circumstances, but also with the maximum power output of a single SunCarrier.

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Key Facts of the SunCarrier:

- _ PLC-controlled tracking for up to 35% more power in comparison to permanently installed market solutions
- _ Module surface of up to 287.50 m²
- _ Angle of rotation in the summer max. 220° (June 21),
in the winter min. 110° (December 21)
- _ Installation height up to 7.20 m above the open ground
- _ Extremely stable steel construction on a strip foundation (diameter: 12.00 m)
- _ The solid foundation guarantees that the system is always ideally positioned even in strong winds
- _ The perfect area of operation is located between the 25th and 55th degree of latitude north or south of the equator
- _ Use with all standard types of module possible
- _ Can be used as a single SunCarrier or in large solar power stations
- _ Determination of characteristic loads by Institut für Aerodynamik GmbH (Aerodynamics Institute) at the Aachen University of Applied Sciences
- _ Significant advantages compared to 2-axis systems with respect to reliability and safety
- _ Long service life with minimal servicing requirements

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Solar park in the Spanish municipality of Pozohondo with a total of 150 installed SunCarrier 300 systems and a power supply of 5,150 kWp.



Six installed SunCarrier 220 systems in Bueren (Germany) with a total power output of 185 kWp.

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