

SOLON SOLraise.

Example Case Study of the Photovoltaic Solution for Partially Shaded Roofs.



- › Commissioned: November 2011
- › Location: Bavaria, Germany
- › System size: 6.87 kWp
- › Roof size: 65 m²
- › Installation time: 1 day
- › Special roof features: Shade cast by dormer, chimney and satellite system
- › Direction: South-west

Optimized by

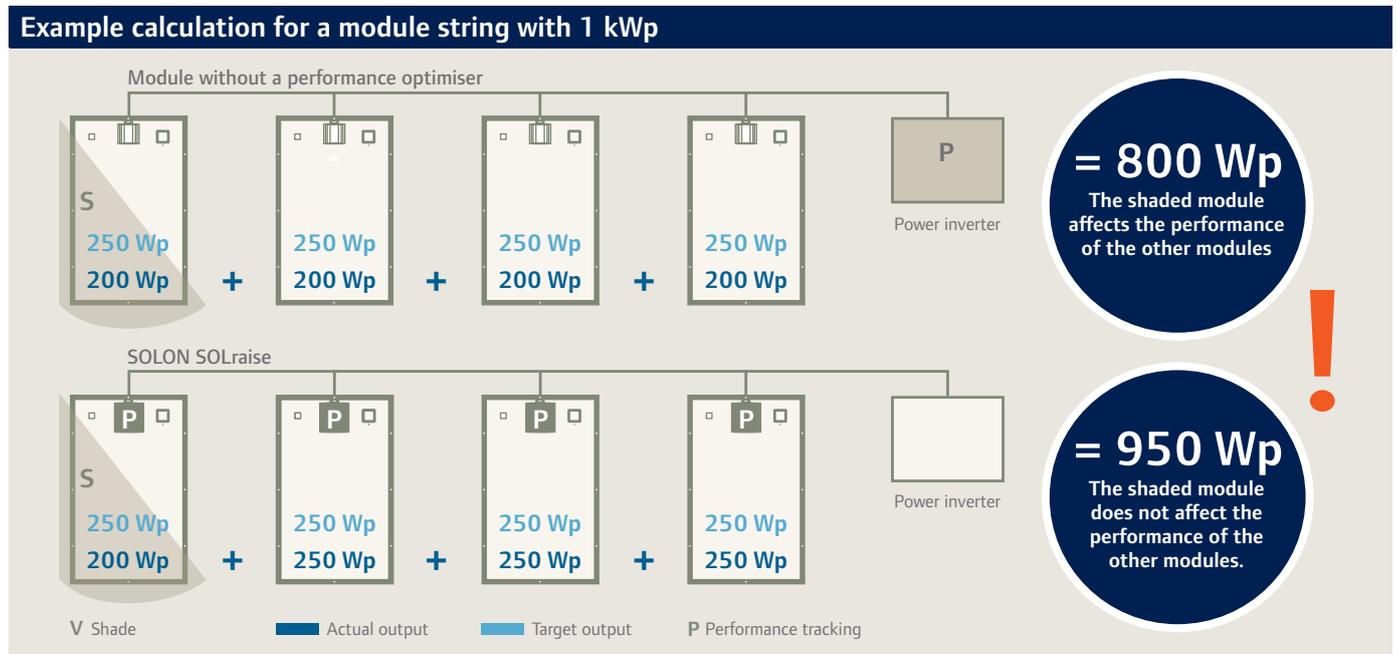
solaredge

SOLON 

SOLON SOLraise.

SOLON SOLraise – The Ideal Solution for Partially Shaded Roof Areas.

How can you increase a PV system's power output by up to 25 %? The answer is with high-quality innovations. SOLON SOLraise was developed together with SolarEdge to meet the special requirements of partially shaded roof areas. It consists of SOLON modules with an integrated performance optimiser, power inverter and monitoring system. All of the components meet SOLON's high quality and performance requirements.



How SOLON SOLraise works.

- › Integrated performance optimisers generate up to 25 % more power in partial shade
- › Monitoring system to evaluate the performance data at module, string and system level
- › 10-year product guarantee and 25-year performance guarantee
- › Unique SafeDC™ technology ensures safety during maintenance and in the event of a fire
- › Flexible string lengths on the power inverters permit simple installation and maximum area utilisation
- › Reliable power output over decades

Case study: How SOLON SOLraise increases power output.

Mr Hornig from Bavaria, Germany, had a SOLON SOLraise system installed on the roof of his house, which was commissioned in November 2011. He is impressed with the results across the board: "My roof is shaded by a large dormer, and I had always thought that this would prevent me from having a solar system installed. But it was possible with SOLON SOLraise, because each individual module contains a performance optimiser. This means that if one module is shaded, its reduced performance does not affect any of the other modules connected to it. This would not be the case in a conventional system." In comparison to a conventional photovoltaic system, this internal module performance tracking increases system yield if individual modules are exposed to partial shading by a chimney or dormer. The other photovoltaic modules that are exposed to full sunlight are able to operate at maximum performance.

For Mr Hornig, the SafeDC™ system was another advantage. "This means that the system automatically shuts down in the event of a fire, which makes it safer for the fire brigade."

The SOLON SOLraise system was quick and easy to install, only requiring one day to complete. And the web monitoring system works even quicker – at the click of a mouse, with each module, string and the system as a whole able to be monitored online. Mr Hornig can access the system data via this protected web portal. This gives him control over the performance of his photovoltaic system at all times.

Mr Hornig's summary: "SOLON SOLraise is an accomplished overall concept for partially shaded roof areas. I have tested the system for almost a year now. I am impressed with the system's efficiency, and also with the fact that I have the option to track the power output of the individual modules."