



SolarEdge Company Profile



SolarEdge Technologies is a provider of distributed solar power harvesting and monitoring systems. Our solution maximizes photovoltaic (PV) power generation by up to 25%, while reducing costs and complexities. SolarEdge systems are deployed worldwide by leading PV installers and can be integrated with any PV module. The systems are suitable for residential, commercial and large scale installations.





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The SolarEdge system is comprised of three elements:

- 1. PowerBox™:** a DC-DC power optimizer that is integrated into each solar module and optimizes energy output through constant tracking of the Maximum Power Point (MPP), while monitoring performance of each module.
- 2. SolarEdge Inverter:** a DC-AC inverter. Fixed string voltage ensures operation at the highest efficiency (>97%) at all times, independent of string length and temperature.
- 3. SolarEdge Monitoring Portal:** a web-based application provides module-level, string-level and system-wide monitoring. The software automatically provides alerts on underperforming modules, faults and safety events, visually pinpointed on a site layout map.

The SolarEdge innovative solution provides key advantages in design, installation, maintenance and future expansion

- **Maximum Power Harvesting** - per module MPP tracking enables production of up to 25% more power through removal of partial shading sensitivity, module mismatch losses, and under/over voltage losses.
- **Flexible Design for Maximum Space Utilization** - traditional design constraints are removed: a single inverter can be connected to parallel strings of different lengths and to modules on differing roof facets. Mismatch immunity enables straightforward module replacements and expansion.
- **Balance of System Cost Reduction** - design flexibility and longer strings allow for savings on wiring, diodes, fuses and other hardware, in addition to communication gateway integral to the inverter
- **Simple and Easy Installation** - in line with common best practices for standard PV installation.
- **Module-level Monitoring & Troubleshooting** - real time monitoring revolutionizes installation feedback and maintenance troubleshooting. In-module monitoring continuously tracks module performance, supported by data analysis software and automatic detection of faults and safety events.

- **Installer & Firefighter Safety** - electrocution and fire risks are eliminated through automatic module shutdown during installation, service or fire.
- **Reliability** - all system components are designed to withstand extreme outdoor conditions. A 25 year PowerBox warranty and a 12 year inverter warranty.
- **Module Immobilization** - prevents reuse of stolen modules (module embedded PowerBox feature).

About Us

Good design always requires a holistic viewpoint. Take a step back, consider all the details from above, and you get a better perspective on how to deal with problems up close. That's precisely how SolarEdge developed its systematic approach for maximizing solar PV performance.

Established in 2006 as a private company by a group of professional technologists, with vast experience in the Solar and Semiconductor industries, and in developing mission critical power systems, SolarEdge delivers a full solution to today's PV challenges, from module to grid.

Over 100 employees in 4 offices located in the US, Japan, Germany and Israel, are involved in R&D, reliability, marketing, sales and support activities. In 2009, SolarEdge commenced mass production with Flextronics, a world leader in electronics manufacturing services. Additional 180 employees staff the SolarEdge production lines.

Our global presence and worldwide distribution chain of highly capable partners, make us a preferred choice for system integrators and installers worldwide. We take pride in strategic alliances established with leading module manufacturers to embed our technology into their PV modules.

Quality and reliability are an integral part of our business, and have a profound impact on design, manufacturing and testing, giving rise to our extensive warranty terms.

SolarEdge has been repeatedly distinguished since 2009, including the Red Herring Europe 2010 award for cutting edge technological companies, selection as one of the world's 10 most innovative energy companies in 2010 by Fast Company Magazine, and the "Hot Investment Opportunity Award" in the European PV Market by Frost & Sullivan.

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