



SolarEdge System Overview

SolarEdge Technologies is the world's leading provider of solar power optimization and monitoring systems. Our solution maximizes photovoltaic (PV) power generation of residential, commercial and large-scale PV installations by up to 25%, and enables faster return on investment. The SolarEdge system lowers maintenance costs through remote performance monitoring and allows flexible system design and optimal site space utilization. The unique SafeDC™ feature guarantees exceptional safety for installers, maintenance personnel and firefighters, at all times. SolarEdge employs over 140 people in its five global offices located in Germany, Italy, the USA, Japan, and Israel. Over 100MW of SolarEdge systems were installed by H1 2011 in over 30 countries worldwide by leading PV installers.

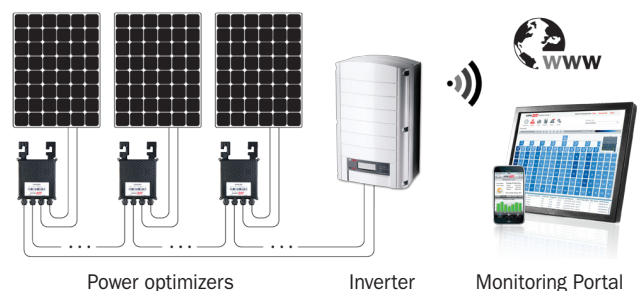


The SolarEdge system is comprised of three elements:

1. **Power optimizer:** A DC-DC power optimizer that is integrated into each solar module and maximizes energy output through constant tracking of the Maximum Power Point (MPP), while monitoring the performance of each module.
2. **SolarEdge Inverter:** Single-phase and three-phase DC-AC inverters. Fixed string voltage ensures operation at high efficiency at all times (max 98%), independent of string length and temperature.
3. **SolarEdge Monitoring Portal:** Web-based and iPhone applications provide module-level, string-level and system-wide performance monitoring. The software automatically generates 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:** production of up to 25% more power through minimization of partial shading sensitivity and module mismatch losses. Optimal DC-AC inversion regardless of temperature or string lengths.
- **Module-level Monitoring and Troubleshooting:** module monitoring continuously transmits module performance data to analysis software, remotely accessed via the internet or an iPhone. Faults and safety events are automatically indicated on a virtual site map.
- **Installer and Firefighter Safety:** electrocution and fire risks are eliminated through automatic module shutdown during installation, service or fire.
- **Flexible Design for Maximum Space Utilization:** a single inverter can be connected to parallel strings of different lengths, to different types of modules and to modules on differing roof facets.
- **Balance of System Cost Reduction:** design flexibility and longer strings allow for savings on hardware components. Communication over existing power lines and communication gateway is integral to the inverter.
- **Simple and Easy Installation:** in line with common best practices for standard PV installation.
- **Reliability:** designed for extreme outdoor conditions. Power optimizers are provided with a 25-year warranty and inverters with a 12-year warranty.





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Applications:

- The SolarEdge power optimizer can be connected by PV installers to almost any kind of PV module. Modules with embedded power optimizers are available from leading PV manufacturers.
- **Residential installations** profit from optimal performance of all modules, even if shaded by nearby houses, trees or chimneys.
- **Commercial installations** benefit from added energy through compensation for module mismatch – whether inherent or due to aging and soiling or to inter-row shading. Maintenance becomes simpler with real-time, module-level troubleshooting and alerts.
- **Large-scale installations** achieve increased yield and safety, using the SolarEdge Monitoring Combiner Box with web-based string monitoring and per string ground fault detection and automatic isolation (GFDI).

SolarEdge Product Family

	Power Optimizers	250W-400W Module Add-On 	350W Thin Film Add-On 	250W/350W Module Embedded
	Single & Three Phase Inverters	1-phase 3.0kW 3.5kW 4kW 5kW 6kW 	3-phase 7kW * 8kW 9kW * 10kW 12.5kW 	1-phase, North America 3.3kW 3.8kW 5kW 6kW 7kW
	Monitoring	Module Monitoring 	iPhone Application 	Monitoring Combiner Box with GFDI
	Accessories	Safety & Monitoring Interface 	GSM modem 	Inverter Wireless connection (WiFi**, ZigBee) ** coming soon
	Installer Tools	Site Designer 	Site Mapper 	Inverter Configuration Tool

* certification pending in some countries.

■ Germany ■ Italy ■ USA ■ Japan ■ Israel

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architects of energy™

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