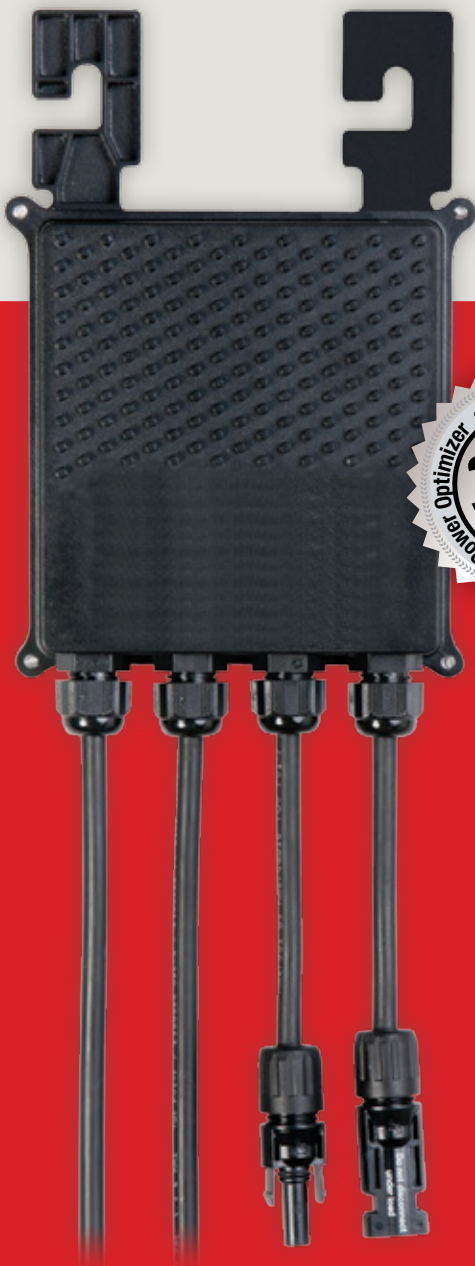




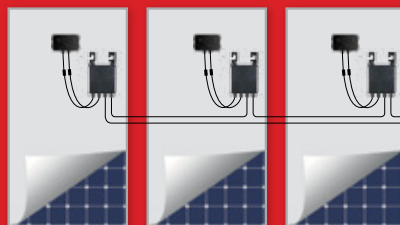
Making PV Panels Smarter

Up to 25% More Energy from Your System

Connecting SolarEdge power optimizers to PV panels makes them **SMART PANELS** that produce **MORE POWER** at all times



Power Optimizer



Power Optimizer



Inverter

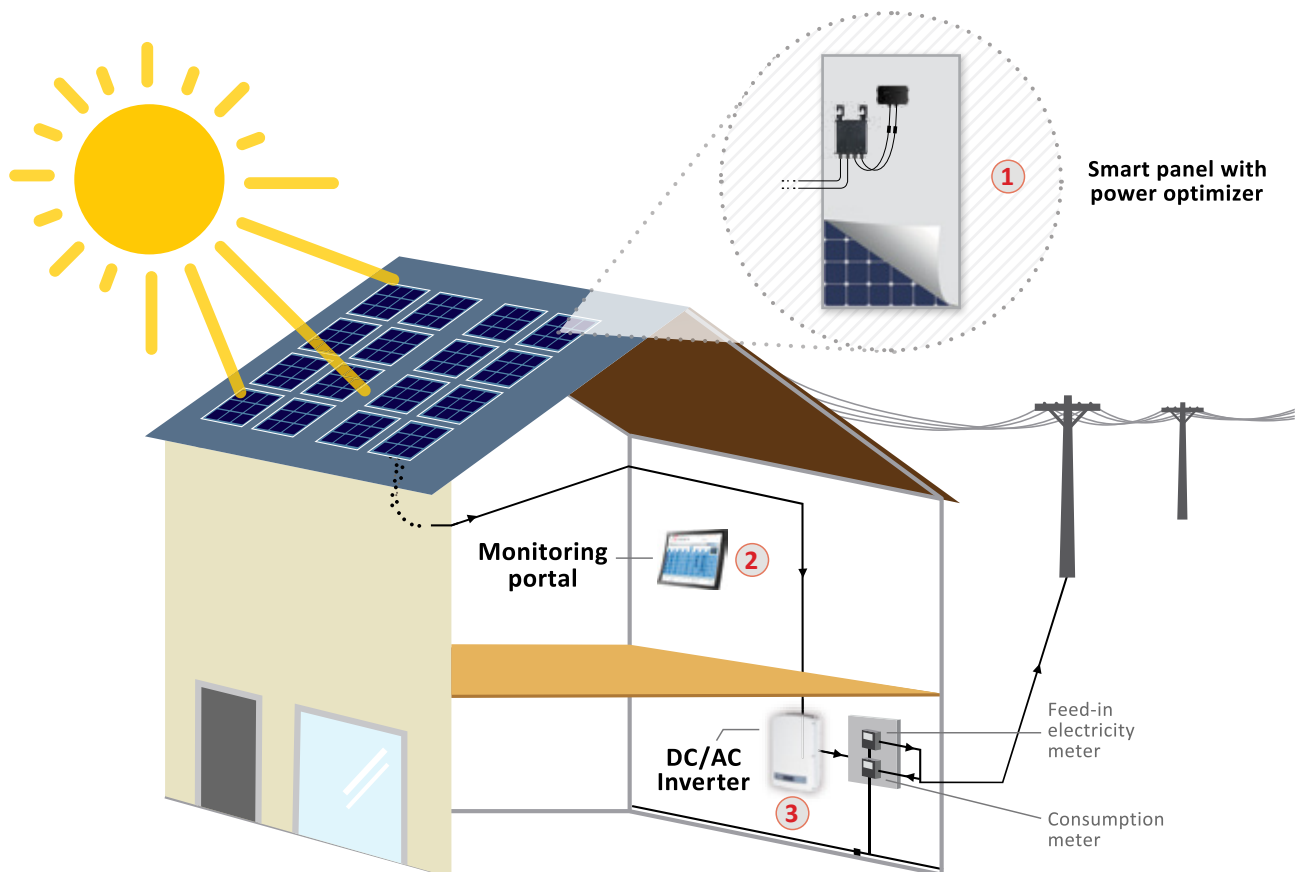


Monitoring Portal

Making PV Panels Smarter

The Solaredge Solution

SolarEdge is the proven leader in PV power optimization with over 2 million power optimizers installed in over 45 countries worldwide. The power optimizers connected to the panels enable them to produce more energy from your system, compared to a traditional system, for a better return on your investment.



1 POWER OPTIMIZER

By connecting the SolarEdge power optimizer to a PV panel it becomes a smart panel.

This allows:

- Harvest of up to 25% more energy from each panel
- Constant feedback on the performance of each panel
- Automatic shutdown of each panel for maximum safety in case of emergency

2 MONITORING

By displaying real-time performance data, the monitoring portal allows:

- Full visibility of your system performance
- Automatic alerts on system issues
- Easy access from a computer, smartphone or tablet

3 INVERTER

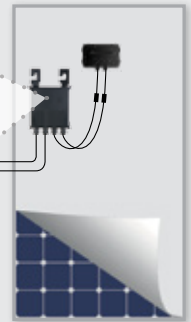
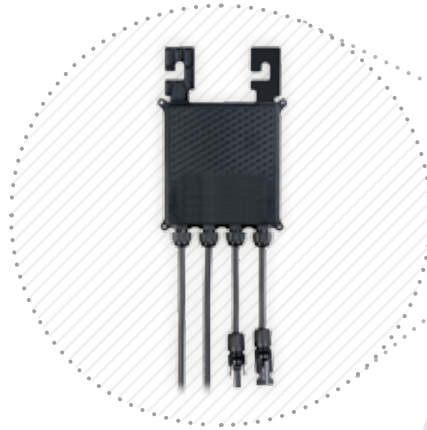
Simple and more reliable inverter:

- Responsible only for DC to AC conversion as all other functions are handled separately for each panel by the power optimizer
- Small, esthetic and wall mounted

Making PV Panels Smarter

1 POWER OPTIMIZER

- Power harvesting per individual panel
- Operates in extreme environmental conditions
- 25 years warranty



2 MONITORING

- Easy to navigate monitoring portal
- Display of data for each panel
- Basic 25 years free monitoring service



3 INVERTER

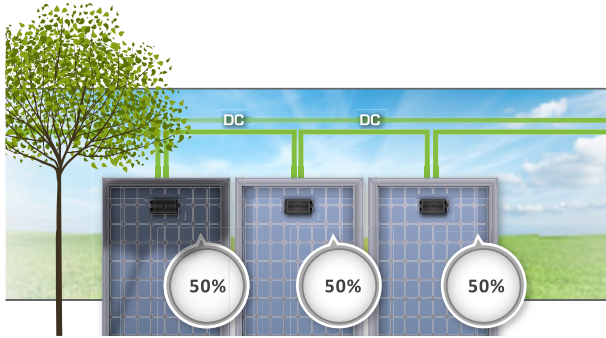
- Very high efficiency (97.6%)
- Superior reliability
- Communication to internet
- Standard 12 years warranty, extendable to 20/25 years



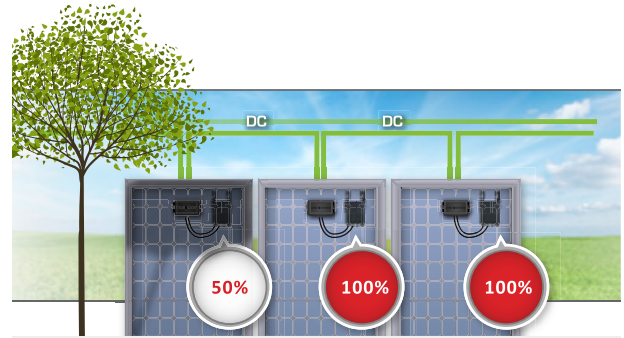
TRADITIONAL TECHNOLOGY

SOLAREEDGE TECHNOLOGY

Performance



- Output of all panels is affected by the weakest panel
- Substantial energy losses due to unevenly dirty and shaded panels



- Each panel generates the maximum possible energy

Peace of Mind

- Limited warranty - between 5 to 10 years
- Limited monitoring with no information on problematic panels

- 25 years warranty for power optimizers; 12 years inverter standard warranty
- The monitoring portal displays performance of each panel

Safety

- Panels produce very high voltage (up to 1000V) even after the inverter or the electricity is shut down

- Automatic shutdown of panel DC current and voltage during installation, maintenance and in case of emergency

Cost Effectiveness

- Many design constraints that limit system size
- Higher cost of wires, fuses and other electrical components
- Monitoring at system level complicates maintenance

- Design flexibility allows maximum roof utilization and more panels per system
 - Panels in partially shaded areas
 - Panels installed at different azimuths & tilts
 - Unequal string lengths
 - Longer strings
- Module-level monitoring for advanced maintenance:
 - Remote troubleshooting for fast & accurate resolution
 - Fault location pinpointed on a virtual site map reducing maintenance time & cost

