



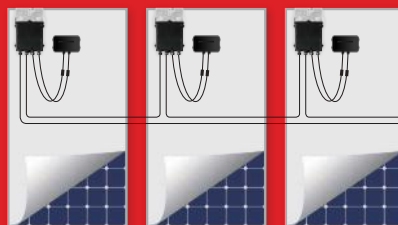
Making PV Panels Smarter

Up to 25% More Energy from Your System

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



Power Optimiser



Power Optimiser



Inverter

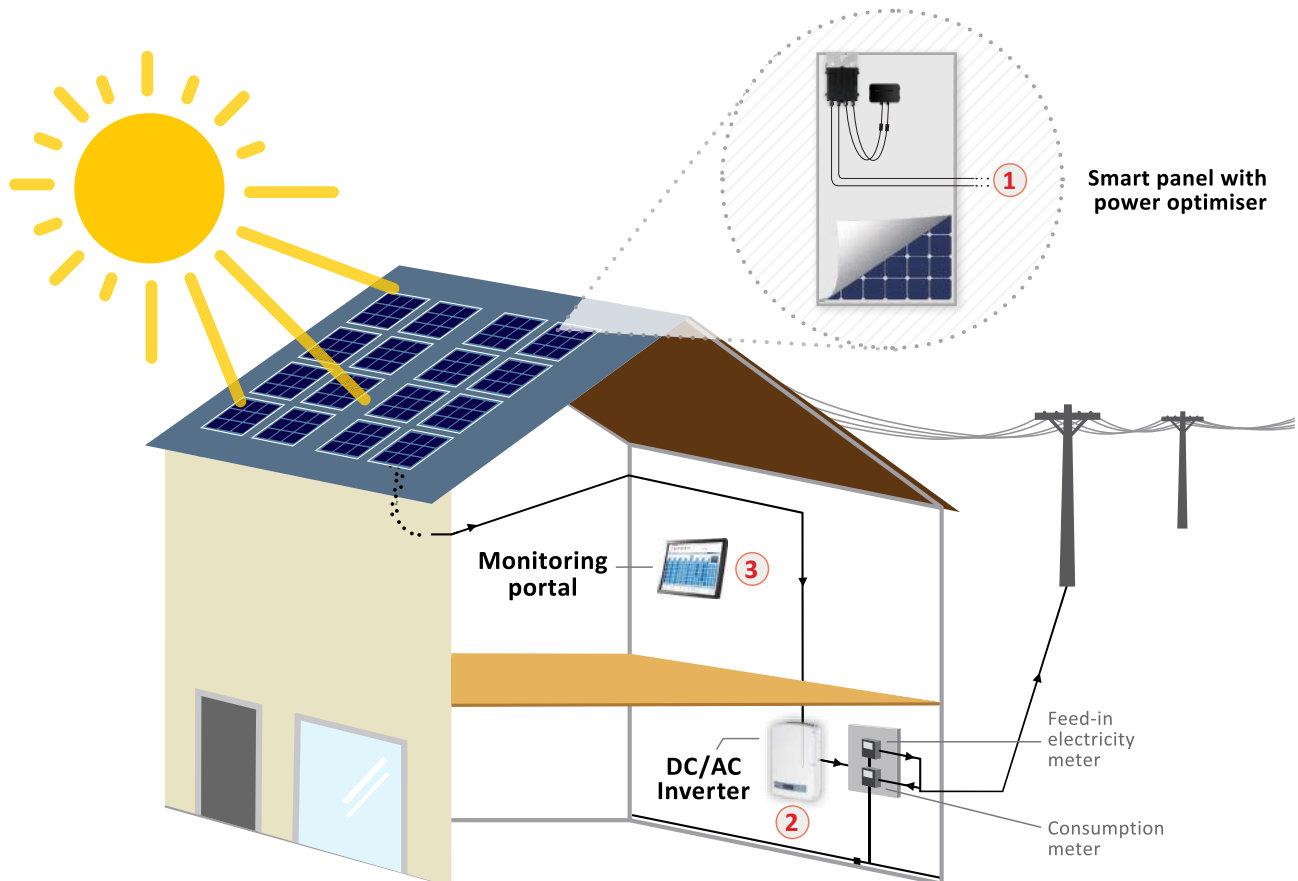


Monitoring Portal

Making PV Panels Smarter

The Solaredge Solution

SolarEdge is the proven leader in PV power optimisation with over 2.7 million power optimisers installed in over 50 countries worldwide. The power optimisers 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 OPTIMISER

By connecting the SolarEdge power optimiser 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 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 optimiser
- Small, esthetic and wall mounted

3 MONITORING

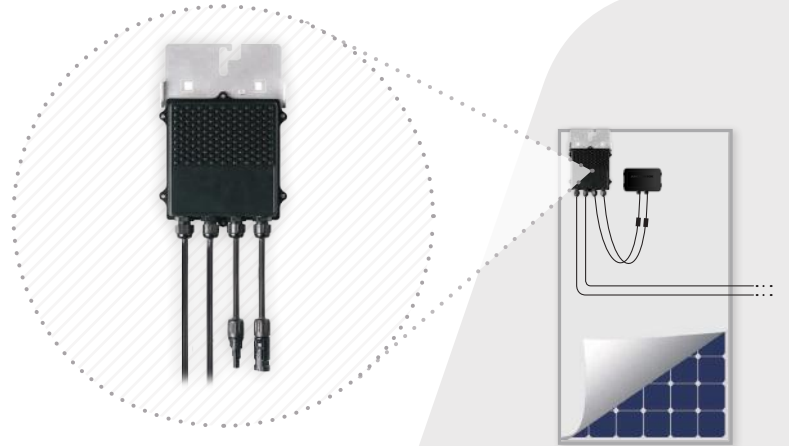
By displaying real-time performance data, the monitoring portal allows:

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

Making PV Panels Smarter

1 POWER OPTIMISER

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



2 INVERTER

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



3 MONITORING

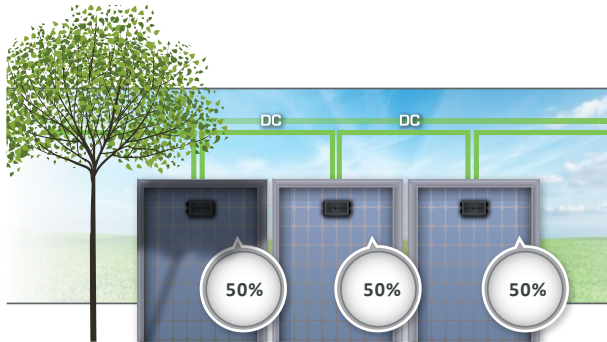
- Easy to navigate monitoring portal
- Display of data for each panel
- Basic 25 years free monitoring service



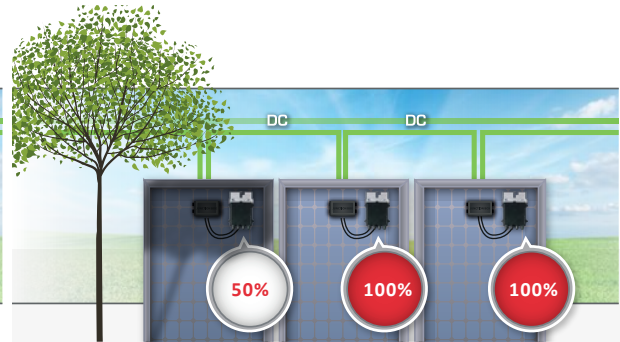
TRADITIONAL TECHNOLOGY

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 optimisers; 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