



# The Intelligent Solution for Schools



Connect SolarEdge power optimisers to PV panels and make them  
**INTELLIGENT PANELS** for **SUPERIOR SAFETY** and **MORE POWER**



# > SolarEdge for Your Peace of Mind

## SUPERIOR SAFETY SOLUTION

- > PV systems are safe and generally pose no danger to public or property
- > However, with a traditional inverter, as long as the sun is up, PV wires are energised with high DC voltages
- > **With SolarEdge, whenever AC power is turned off, DC wires are designed to automatically de-energise providing protection to installers, maintenance personnel, firefighters, and property**
- > Compliant with strict EU safety standards IEC 60947 & VDE 2100-712



## FREE CLOUD-BASED MONITORING PLATFORM

### Full visibility of system performance

- > Each panel is monitored individually to guarantee optimal performance, at all times
- > Panel issues are pinpointed on the virtual array map for quick and easy resolution
- > Users can monitor real-time system performance anytime, anywhere using free iOS and Android applications

### Experience the power of the sun

- > PV system production data is accessible to teachers, pupils and school visitors
- > Daily, weekly, monthly and yearly data can be compared to past performance and to weather conditions
- > Environmental benefits are represented as truckloads of CO<sub>2</sub> emissions saved, equivalent number of trees planted and light bulbs powered





# > More Power

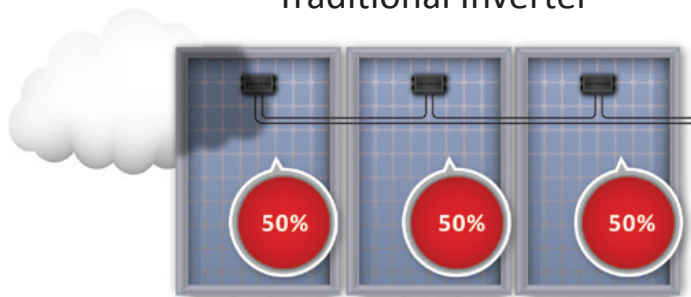
## MAXIMUM POWER FROM EACH PANEL

In a PV system, each panel has an individual maximum power point. Inherent and environmental differences among panels result in power losses. For example:

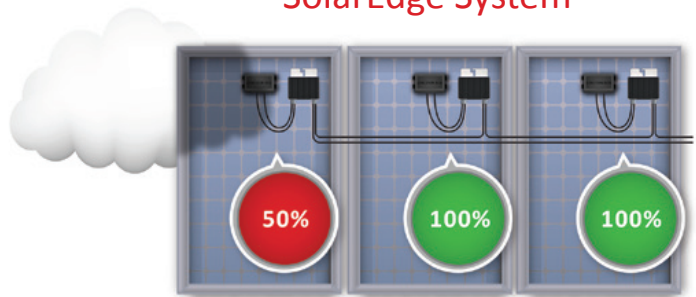


With traditional inverters, the weakest panel reduces the performance of all panels in a string. **With SolarEdge, each panel produces the maximum energy, and power losses are minimised.**

### Traditional Inverter



### SolarEdge System



## LIFETIME SYSTEM WARRANTY

- > Power optimisers: 25-year warranty
- > Inverter: 12-year standard warranty, extendable to 20/25 years
- > Monitoring: free for system lifetime



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## POWER OPTIMISER

By connecting a SolarEdge power optimiser to a PV panel it becomes an intelligent panel. This enables:

- Harvest of up to 25% more energy from each panel
- Constant feedback on individual panel performance
- Safe DC voltage on each panel maximising safety in case of an emergency



## INVERTER

A simpler and more reliable inverter:

- Responsible for DC to AC conversion only, as all other functions are handled separately for each panel by the power optimisers
- Small and aesthetic



## MONITORING

By displaying real-time performance data for each panel, the monitoring platform enables:

- Full visibility of your system's performance
- Automatic alerts on system issues
- Educational platform to study the benefits of solar energy

## ABOUT SOLAREEDGE

As a PV inverter and power optimisation leader, SolarEdge Technologies has shipped more than 3.8 GW of its DC optimised inverter solutions for installation in 100 countries around the world.



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