

solar**edge**

Optimising Commercial PV Systems

More power,
more revenue



/ Improve Your Bottom Line

Invest where it matters

Inverters account for less than 10% of the system cost yet they:

- / Manage 100% of system production
- / Influence up to 20% of system cost
- / Control O&M expenses through PV asset management solutions

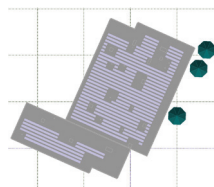
Maximise power with more panels

When considering a commercial PV system, it often makes sense to maximise the system capacity by installing more panels.

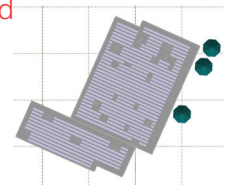
Flexible site design > More panels on the roof > More power



Traditional inverter
149.5 kWp



SolarEdge 200 kWp
27% added power



Harvest more power from each panel

SolarEdge mitigates power losses due to mismatch between panels for maximum power generation. This ensures that weaker panels do not affect the strong ones.

Mismatch sources



Transportation damage



Different tilt & orientation



Thermal mismatch



Partial shading



Soiling



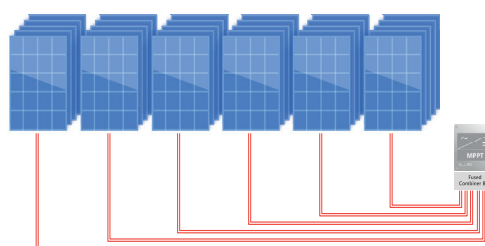
Manufacturing tolerance

Design with longer strings for increased savings

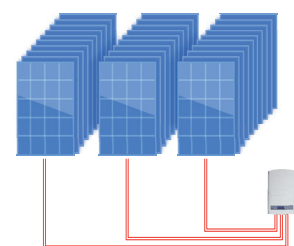
SolarEdge enables longer strings, saving up to 50% on Balance of System costs such as cabling and electrical components.

27-60 panels, up to 15kW per string

Traditional inverter



SolarEdge DC optimised inverter



/ Look After Your Investment

Save costs through remote monitoring on your mobile device

Stay informed 24x7 and benefit from:

- Free panel-level monitoring for 25 years
- Fewer visits to site
- Higher system uptime



Future proof your asset

When it comes to system value, SolarEdge offers low cost inverter warranty extensions of up to 20 years. Furthermore, with module mismatch no longer impacting system performance in the same way, if panels need to be changed or you need to extend the system, a variety of panel types can be used.

Protect your asset

Enjoy the peace of mind of being able to provide the highest safety for installers, electricians, and firefighters.

SafeDC™

SafeDC™ is a built-in, panel-level safety feature which minimises electrocution risk. To maintain string voltage below risk levels, power optimisers are designed to automatically switch into safety mode when AC is shutdown. The output voltage of each panel will be reduced to touch-safe 1V.



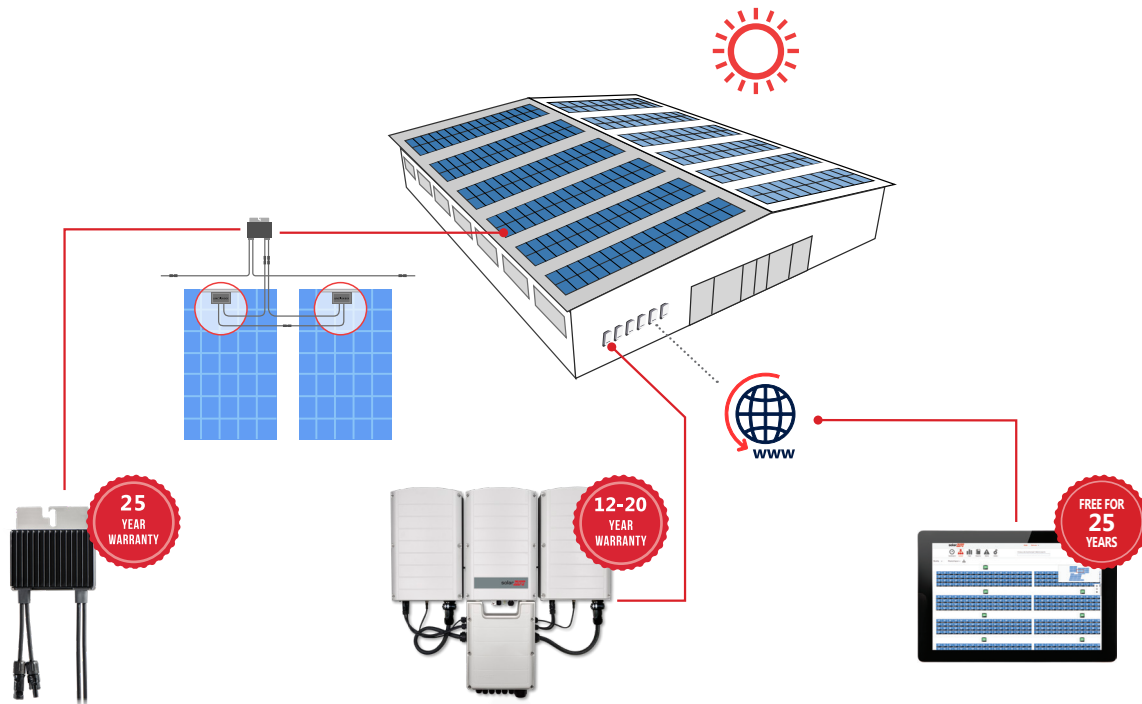
The SafeDC™ feature is certified in Europe as a DC disconnect according to IEC/EN 60947-1 and IEC/EN 60947-3 and to the safety standards VDE AR 2100-712 and OVE R-11-1.

Arc fault detection and interruption

Arc detection is not required by UK regulation, but is commonly requested by insurance companies. SolarEdge inverters have a built-in protection designed to mitigate the effects of some arcing faults that may pose a risk of fire, in compliance with the UL1699B arc detection standard. Currently there is no comparable arc detection standard in the EU.

Arc detection needs to be activated during system commissioning. At this point, the restart mechanism can either be set to automatic or manual reconnect.

/ More Insight, More Power, More Revenue



2 to 1 Power Optimisers

- Maximise power production from each panel
- Minimise power losses due to panel mismatch
- Reduce the impact of uneven panel degradation

15kW-100kW Three Phase Inverters

- Specifically designed to work with power optimisers
- Superior efficiency
- Easy installation, including 2-person install for large capacity models
- Built-in communication & monitoring hardware
- Simple, step-by-step inverter activation and commissioning with the SetApp mobile application

Monitoring Platform

- Full visibility of system performance
- Remote, panel-level troubleshooting



Commercial Gateway

- Allows connection of multiple sensors to analyse system performance



Firefighter Gateway

- Provides centralised safety management of SolarEdge systems

About SolarEdge

SolarEdge is a global leader in smart energy technology. By deploying world-class engineering capabilities and a relentless focus on innovation, we create smart energy products and solutions that power our lives and drive future progress.

- SolarEdge
- @SolarEdgePV
- @SolarEdgePV
- SolarEdgePV
- SolarEdge
- infoUK@solaredge.com

solaredge

solaredge.com

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