SOLAREDGE COMMERCIAL SOLUTIONS FOR INCREASED REVENUE & ADVANCED ASSET MANAGEMENT

About SolarEdge

About Us

In 2006, SolarEdge invented an intelligent inverter solution that has changed the way power is harvested and managed in PV systems. Since beginning shipments in 2010, SolarEdge has shipped more than 4.2GW of its DC optimized inverter solution and its products have been installed in PV systems in 102 countries. SolarEdge is traded on the NASDAQ under the SEDG symbol.

Vision

- For every solar panel to be individually managed by DC-DC panel-level electronics
- To accelerate the pace toward grid parity and make clean energy affordable and widespread

Bankability

- Bankable in major European and North American solar financing institutions and banks
- Publicly traded on NASDAQ as SEDG

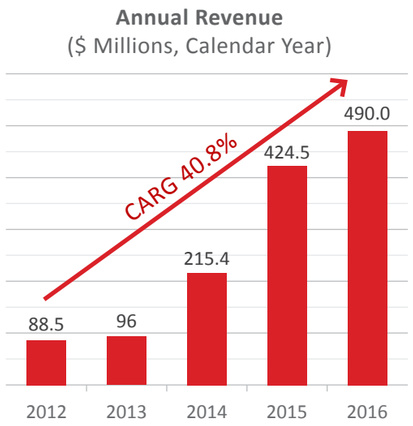
Global Outreach

- Products sold in 50 countries
- Sales via leading integrators and distributors
- Follow the sun call centers
- Local expert teams
- Global manufacturing with tier 1 electronic manufacturers

INNOVATION GUARANTEED

Business Figures

- 15,400,000 power optimizers and over 633,000 inverters shipped worldwide
- Monitoring system continuously tracks over 374,000 PV installations



Product Reliability

- Long product warranties: 25-year power optimiser warranty and 12-year inverter warranty, extendable to 20 or 25 years
- Each SolarEdge product and component undergoes rigorous testing
- Products and components have been evaluated in accelerated life chambers
- Reliability strategy includes proprietary application specific ICs (ASIC)

84 awarded patents and 123 additional patent applications

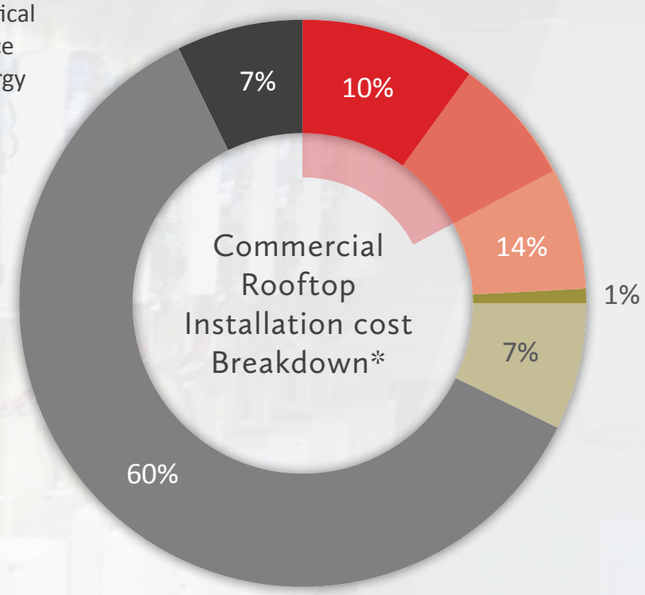
The Importance of Inverter Selection

While inverters account for only ~10% of the system cost they:

> Manage 100% of system production

> Control O&M expenses through PV asset management solutions

Therefore, the inverter selection is critical for the long term financial performance of a PV system as it can maximise energy production and reduce lifetime costs.

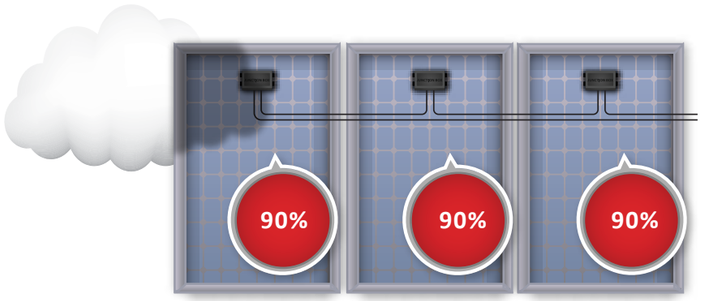


** Based on SolarEdge market analysis, assuming total cost of ~€1/Wp*

Increased Revenue

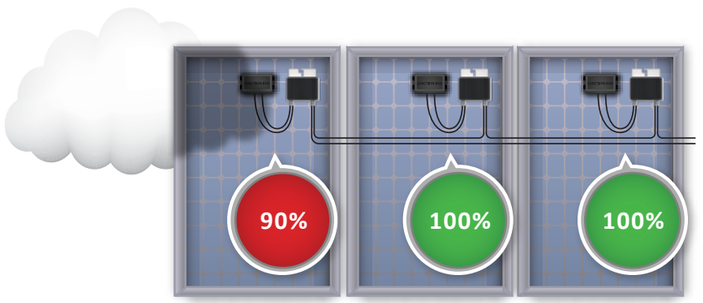
MAXIMUM ENERGY FROM EACH PANEL

In a PV system, each panel has an individual maximum power point. Differences between panels are unavoidable in commercial installations. With traditional inverters, the weakest panel reduces the performance of all panels. **With SolarEdge, each panel produces the maximum energy, and mismatch-related power losses are eliminated.**



Traditional Inverter

> Weak panels reduce the performance of all panels in the string or are bypassed
> Power losses due to panel mismatch



SolarEdge System

> Maximum power produced and tracked from each panel individually
> 2%-10% more energy from the PV system

POWER LOSSES CAN RESULT FROM MULTIPLE FACTORS, INCLUDING:

Manufacturing Tolerance Mismatch

The warranted output power range for PV panels received from a manufacturing plant may vary greatly. A standard deviation of ±3% is sufficient to result in ~2% energy loss.

Guaranteed power output from panel manufacturers
0~+3%

Soiling, Shading & Leaves

Panel soiling, from dirt, bird droppings or other obstructions, contributes to mismatch between panels and strings.

While there may be no obstructions during site design, throughout a system's lifetime, a tree may grow or a structure may be erected that creates uneven shading.

Soiling

Bird droppings

Leaves

Uneven Panel Aging

Panel performance can degrade up to 20% over 20 years, however, each panel ages at a different rate, causing aging mismatch, which increases over time.

Source: A. Skoczek et. al., "The results of performance measurements of field-aged c-Si photovoltaic modules", Prog. Photovolt: Res. Appl. 2009; 17:227–240

Advanced Asset Management

Full visibility of your system's performance

> Full visibility into your assets through panel-level monitoring – free for system lifetime

> Automatic alerts on system issues, pinpointed on a virtual site map

Anytime, anywhere

> Complete system status on your mobile device

Future compatibility and warranty

> 25-year power optimizer warranty;
12-year inverter warranty;

> Any panel model can be used for future replacement & extension

> For agricultural areas – products are certified for ammonia resistance

For system lifetime

> Automatic performance reports

> Remote troubleshooting and enhanced maintenance capabilities

Superior Safety

With millions of photovoltaic (PV) systems installed around the world, this technology is designed to be relatively safe and reliable. However, as traditional PV installations can reach voltages as high as 1,500VDC, precautions should be taken to ensure the safety of people and assets.
Traditional string or central inverters are limited in the safety level they offer installers, maintenance personnel and firefighters. Shutting down the inverter or the grid connection will terminate current flow, but electrocution risk remains, since DC voltage in the string cables will stay high for as long as the sun is shining.
In addition, the possibility of electrical arcs, which can result in a fire, creates a threat to the asset on which the PV system is installed, as well as to people who live or work in the vicinity of the PV system.

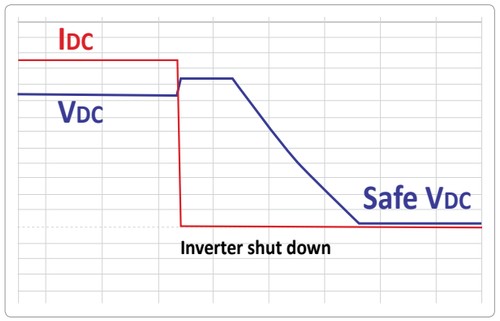
The SolarEdge system provides a superior safety solution for both electrocution and fire risks.

SAFEDC™

SafeDC™ is a built-in panel-level safety feature which minimises electrocution risk. During installation or when the grid or inverter is shut down (including during maintenance), power optimisers are designed to automatically switch into safety mode, in which the output voltage of each panel will be reduced to 1V. String voltage will be maintained below risk levels. For example, if 19 power optimisers are connected in series, the string voltage will be 19V.
Panel-level shutdown is designed to occur automatically in either of these cases:

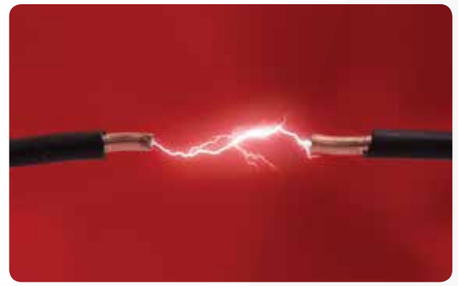
> During installation, as long as the string is disconnected from the inverter, or the inverter is turned off
> During maintenance or emergency, when the inverter is turned off or when the AC connection of the building is shut down
> When the thermal sensors of the power optimisers detect a temperature above 85˚C

The SolarEdge 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.



This graph represents an automatic string shutdown. As demonstrated, the current is shut down immediately once AC power or Inverter is turned off. The string voltage is reduced to safe voltage.

ARC FAULT DETECTION AND INTERRUPTION



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.
The US standard, which came into effect as part of NEC2011, includes requirements for serial arc detection (i.e. arcs within the string) and for manual, on-site restart after an arc detection event.
No comparable arc detection standard exists in EU, and therefore non-US SolarEdge inverters can detect and interrupt arcs as defined by the UL1699B standard, but in addition to manual restart, a mechanism for auto-reconnect is enabled.

4.2GW OF SYSTEMS SHIPPED WORLDWIDE

GROUND MOUNT

INDUSTRIAL ROOFTOPS

FARMS & AGRICULTURE

PUBLIC BUILDINGS

CARPORTS & SAFETY

Featured References

GROUND MOUNT

Turkey, 5MW

Denmark, 2MW

France, 2.7MW

United States, 1MW

Featured References

INDUSTRIAL ROOFTOPS

The Netherlands, 2MW

United States, 525kW

United Kingdom, 1.63MW

Western International Market, London, The installation won the 2015 Annual European Energy Service Awards for 'Best Energy Project'

Australia, 100kW

Featured References

AGRICULTURAL ROOFTOPS

Denmark, 1.22MW

The Netherlands, 303kW

Israel, 700kW

South Africa, 250kW

Featured References

CARPORTS

The Netherlands, 3MW

39 electric car charging stations

United States, 335kW

Motorcars Honda, Ohio

United Kingdom, 250KW

Nottingham Emmanuel School

United Kingdom, 150kW

John Lewis car park, Exeter

Featured References

SCHOOLS

Singapore, 1MW

American School

The Netherlands, 303KW

De Meerwaarde, Barneveld

Australia, 97.5kW

United States, 756KW

Farmington Central School District #265, Illinois

Featured References

FIREFIGHTER STATIONS

United Kingdom, 700KW on 15 sites

Hampshire Fire and Rescue Service

"Fire precautions and revenue reduction are important factors for all Hampshire County Council projects. We have standardised our Solar PV solution for the whole estate in order to isolate the PV energy in fire alarm events."

> Paul Roebuck MIET, Engineering Manager, Hampshire County Council

United States, 42kW

Putnam Lake Fire Department, New York

"I am truly proud of this installation, Putnam Lake Fire Department & New York State Solar Farm Inc. have set the standard of what is possible in a community that wants to take control of its energy future using quality products and a great local installer. The best part is that this fire station will be a training facility for other first responders about PV safety."

> Anthony Sicari Jr., CEO of New York State Solar Farm Inc.

Featured References

GAS STATIONS

Israel, multiple 50KW

Gas stations

"We have been working with the SolarEdge solution for commercial systems for a long time, and when we were asked as advisors for Dor Alon gas stations to recommend a PV solution, SolarEdge was the obvious choice, not only for the added yields it provides, but also because of the comprehensive safety solution it offers, which is particularly important in this kind of installation."

> Eyal Baharav, Owner, Golan Solar

South Africa, 20kW

Port Elizabeth

"Without SolarEdge's SafeDC™ technology, installation would not have been approved and we would have missed out on this important business opportunity."

> Barry Davis, Director, Kwikelec

Featured References

HEALTH CARE

South Africa, 100KW

3 NHC health care centers

United States, 220KW

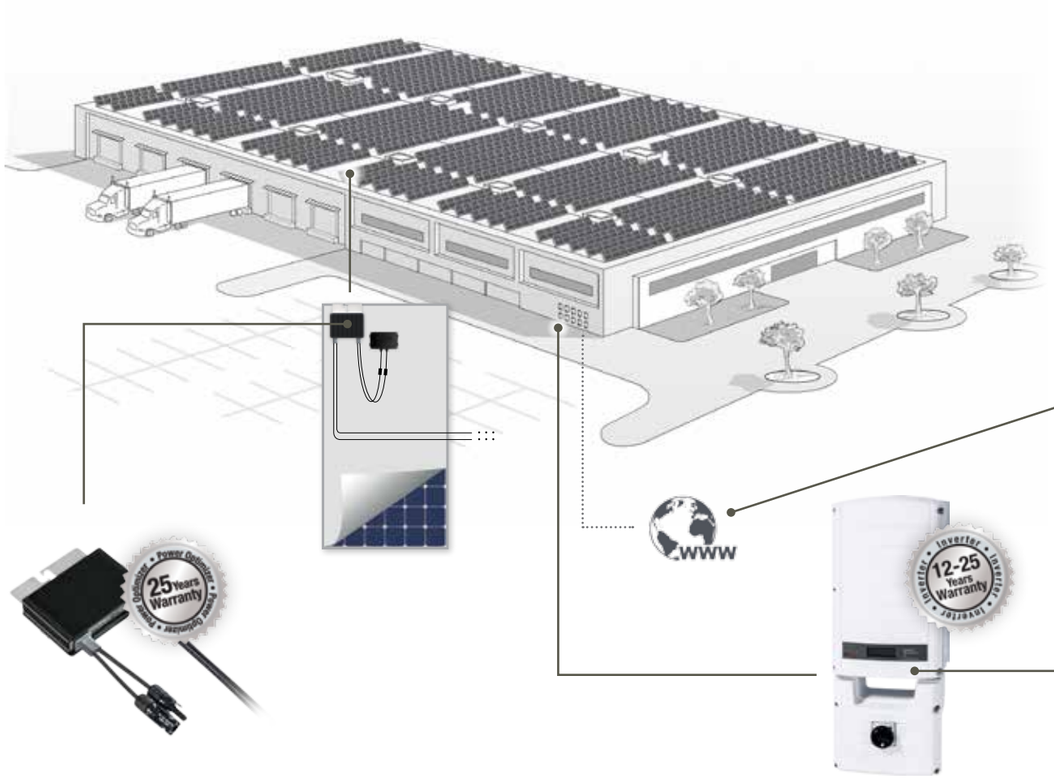
Kuakini hospital, Hawaii

United Kingdom, 32kW

Birds Hill nursing home

Commercial System Diagram

The SolarEdge solution consists of inverters, power optimisers, and a cloud-based monitoring platform. The technology provides superior power harvesting and panel management by connecting power optimisers at the panel level. The ability to connect two panels to just one optimiser, combined with DC to AC conversion and grid interaction being centralised at a simplified PV inverter maintains a competitive cost structure.



P300-P500 Power Optimiser Configuration

Panel-level MPPT – no mismatch power losses

Compatible with all SolarEdge inverters

SafeDC™ – automatic panel-level safety shutdown

10kVA – 27.6kVA Inverter

Lower cost compared to traditional inverters

High efficiency

Simple and reliable

Cloud-based Monitoring Platform

Full visibility of system performance

Access via browser or any Android, iOS smart phone or tablet

Automatic performance and alert reports

Firefighter Gateway

Can be added to the PV system to provide centralised safety management

Gives real-time indication of the system's DC voltage

Smart Energy Management

Increasing self-consumption by export limitation and consumption-monitoring

Environmental Sensors

Connection of environmental sensors for advanced site monitoring to calculate site performance ratio and environmental conditions

The SolarEdge DC optimized inverter maximizes power generation at the individual PV module-level while lowering the cost of energy produced by the PV system for a higher return on investment.

By connecting power optimizers to each module, the system enables superior power harvesting and module management. Enhanced PV asset management including reduced O&M costs are enabled through module-level monitoring and remote troubleshooting. Another benefit is the automatic DC shutdown, for installer, maintenance personnel, and firefighter safety, through the SafeDC™ mechanism.

SolarEdge is a bankable, top 10 global inverter manufacturer, with more than 4.2GW of our systems installed in 102 countries worldwide.

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