

solar**edge**

# Commercial Offering for Installers & EPCs



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# About SolarEdge

## About us

In 2006, SolarEdge revolutionized the solar industry by inventing a better way to collect and manage energy in PV systems. Today, we are a global leader in smart energy technology. By deploying world-class engineering capabilities and with a relentless focus on innovation, we create smart energy products and solutions that power our lives and drive future progress.



### Vision

We believe that continuous improvement in the ways we produce and manage the energy we consume will lead to a better future for us all



### Bankability

- Approved by major banks and financial institutions worldwide
- SolarEdge (SEDG) is traded on NASDAQ
- Our financial strength and stability, combined with our cutting-edge technology, has propelled us to become one of the largest inverter manufacturers in the world

### Global reach

- Systems installed in over 130 countries across five continents
- Sales via leading integrators and distributors
- Follow the sun call centers
- Local teams of sales, service, marketing, and training experts
- Global manufacturing capabilities with tier 1 electronic manufacturing service companies

### Award-winning technology



### Shipping since 2010

- 3.5 million inverters and over 80 million Power Optimizers shipped worldwide
- SolarEdge's Monitoring Platform continuously tracks over 2.45 million installations across the globe

### Corporate social responsibility

As a global leader in smart energy technologies, SolarEdge is committed to a sustainable world and is in full compliance with international standards on quality and control, ethical conduct, and environmental protection



### Patents

SolarEdge has a vast portfolio of intellectual property, with hundreds of awarded patents and patent applications

### Product reliability

- 25-year Power Optimizer warranty and 12-year inverter warranty, extendable to 20 years
- SolarEdge products and components undergo rigorous testing, and have been evaluated in accelerated life chambers
- Reliability strategy includes proprietary application specific ICs (ASIC)



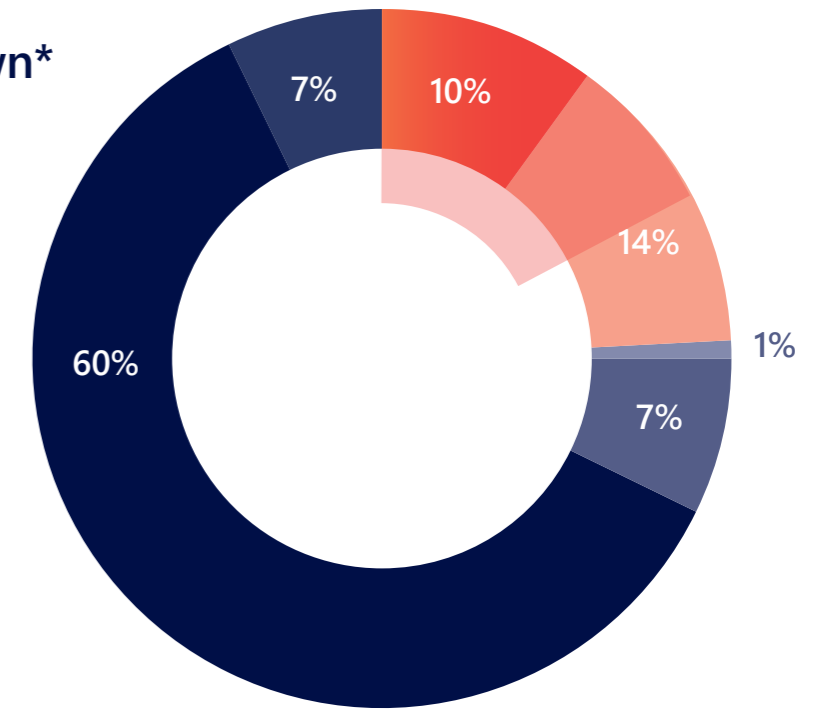
# The Importance of Inverter Selection

## Commercial rooftop installation cost breakdown\*

Inverters account for less than 10% of the system cost but,

- ▀ Manage 100% of system production
- ▀ Influence up to 20% of system cost
- ▀ 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 maximize energy production and reduce lifetime costs.



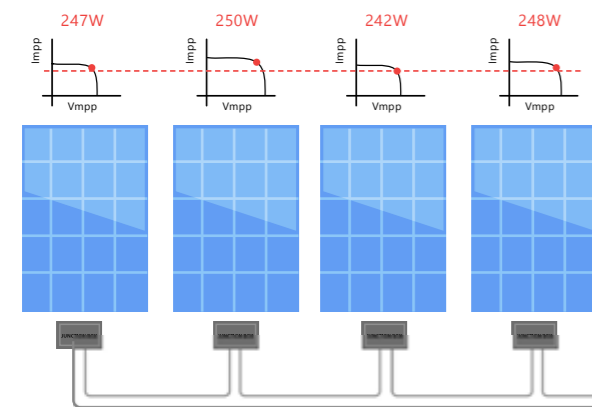
- ▀ Inverter
- ▀ EPC margin
- ▀ Electrical BOS
- ▀ PV modules
- ▀ Other
- ▀ Structural BOS

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

# Maximum Energy Yield in Commercial Installations

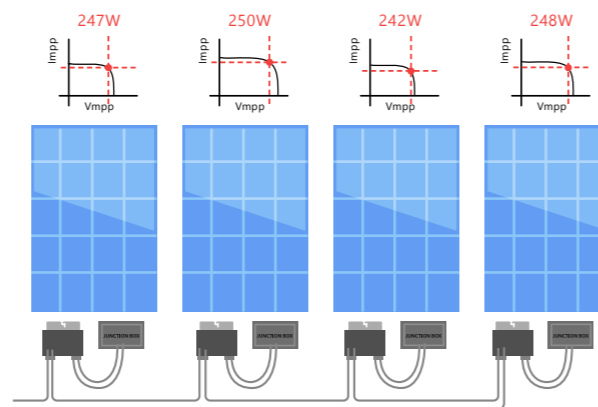
Unavoidable in commercial installations, module-level mismatch occurs when modules in a string have different Maximum Power Points (MPPs). Arising from a variety of sources, the mismatch decreases the energy yield of the entire string.

## Traditional string inverter



- MPPT per string - all modules operate at same current, regardless of their individual MPP
- Weak modules reduce the performance of all modules in the string or are bypassed
- Power losses due to module mismatch

## SolarEdge DC optimized inverter solution



- Module-level MPPT - current & voltage adjusted at the module level
- Maximum power produced and tracked from each module individually
- 2%-10% more energy from the PV system

The SolarEdge DC optimized inverter solution mitigates power losses caused by module mismatch for maximum power generation from each module. With SolarEdge, strong modules are not affected by the weaker ones.

## Examples of power mismatch in commercial installations:

### Manufacturing tolerance mismatch

The module manufacturer-warranted output power range may vary greatly. A standard deviation of 3% is sufficient to result in ~2% energy loss.

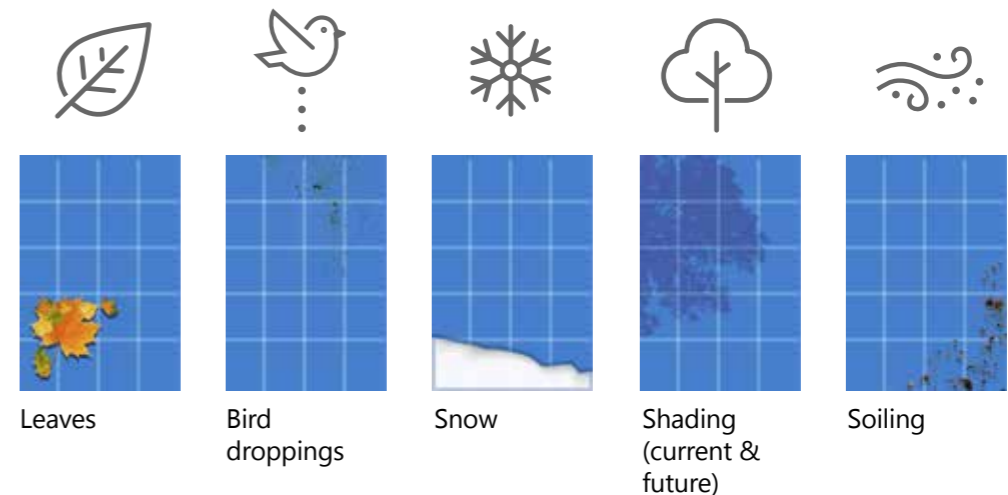


Guaranteed power output from module manufacturers  
0~+3%

### Soiling, shading & leaves

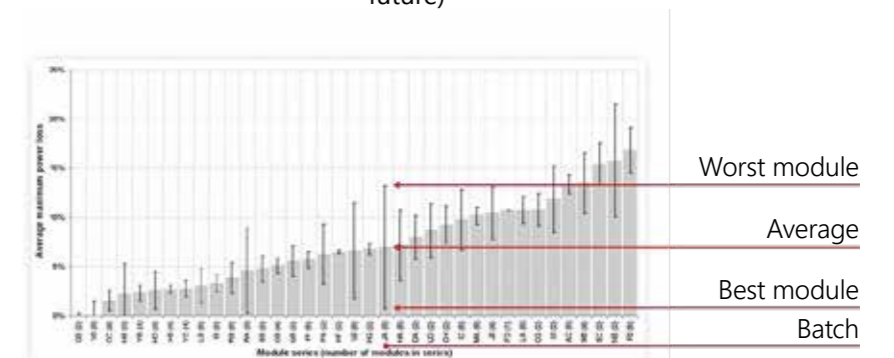
Module soiling, from dirt, bird droppings or snow, contributes to mismatch between modules and strings.

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.



### Uneven module aging

Module performance can degrade up to 20% over 20 years, however, each module ages at a different rate, which causes aging mismatch.



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



## Design Flexibility

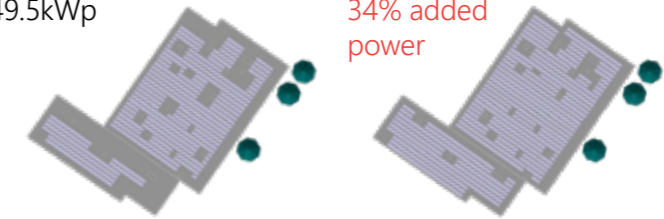
### More power

With module-level power optimization and maximum design flexibility, more modules can be installed on the roof, enabling a shorter project payback period. SolarEdge Power Optimizers enable installation of:

- Modules in partially shaded areas
- Strings of uneven lengths
- Strings in multiple orientations and different roof facets



**Standard inverter**  
149.5kWp



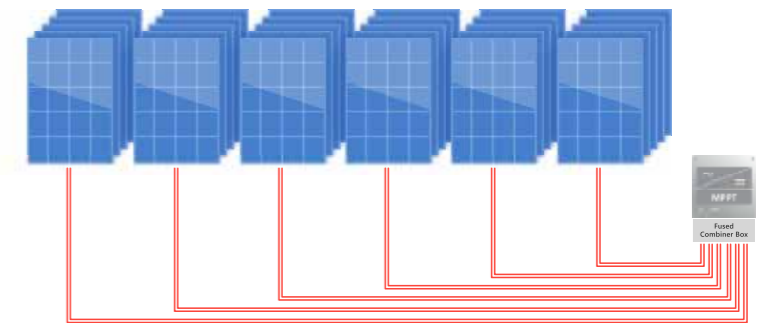
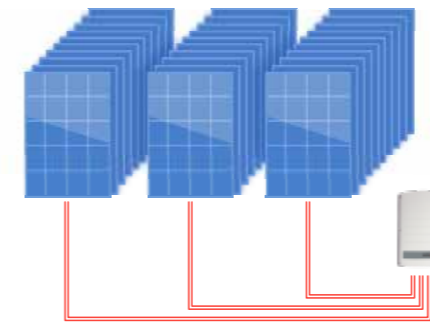
**SolarEdge 200kWp**  
34% added power

### Reduced BoS cost

Up to 15kW per string allows for more modules per string. This leads to fewer strings per inverter and therefore less wiring, combiner boxes, and fuses

■ **SolarEdge DC optimized inverter**

■ **Traditional inverter**





## PV Asset Management with Module-Level Monitoring



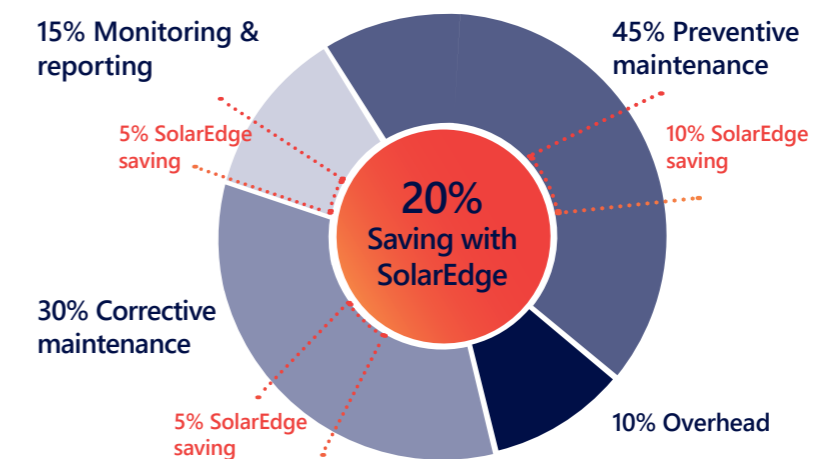
As equipment prices drop and system sizes trend upward, PV projects are increasingly seen as secure long-term investment opportunities. Like any financial asset, PV systems must be monitored and managed to realize their full potential.

Traditional inverters offer limited information, such as string-level or system-level monitoring that can indicate underperformance of the array, but little else. It then becomes costly and time consuming to send skilled technicians to perform on-site troubleshooting.

The SolarEdge DC optimized inverter solution offers advanced PV monitoring and asset management. Power Optimizers constantly track MPP and report high-resolution data on module performance.

The SolarEdge Monitoring Platform transforms O&M from a manual, resource-intensive process to an automated, at-a-glance service, ensuring that every plant is performing to the best of its ability at all times.

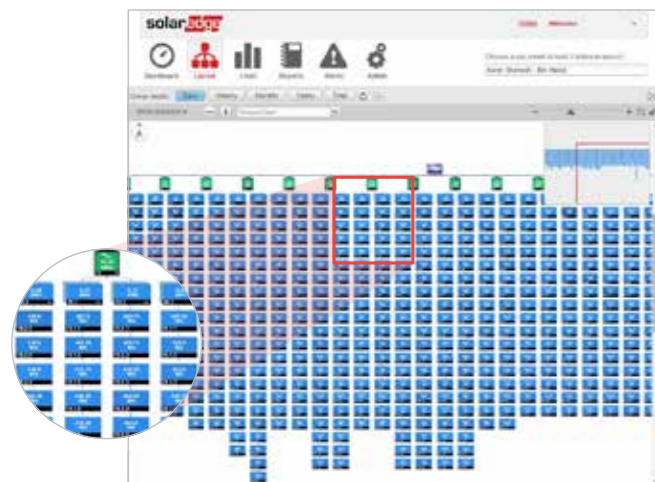
145kW SolarEdge system, The Netherlands, installed by New Energy Systems



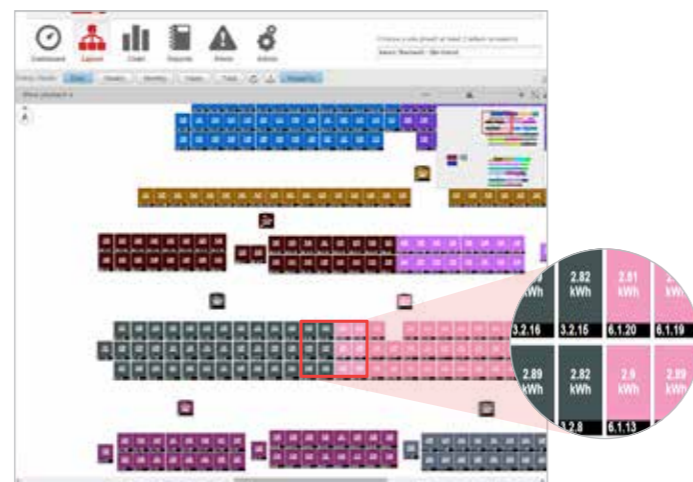
# PV Asset Management with Module-Level Monitoring (cont.)

## SolarEdge's Monitoring Platform features:

1. Real-time remote monitoring at the module, string, and system levels

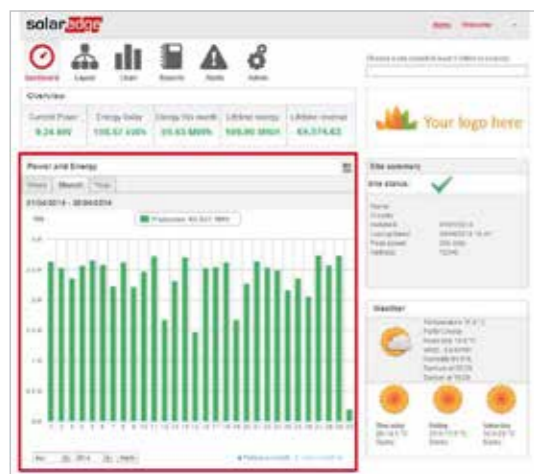


The logical layout displays the electrical connectivity between modules, strings and inverter

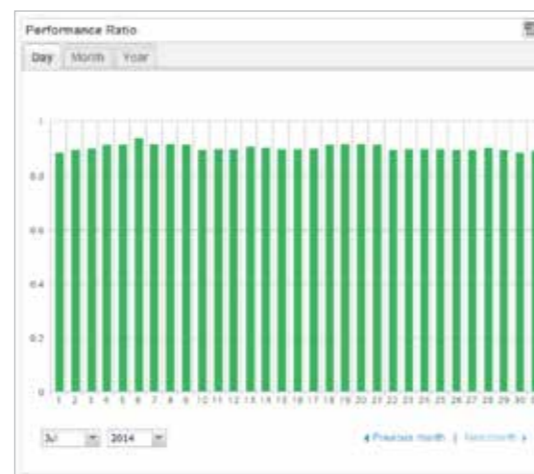


The hierarchy layout displays grouping of components per inverter

2. Comprehensive analytics tracking and reports of energy yield, system uptime, performance ratio, and financial performance



Dashboard - Energy production is displayed with weekly, monthly and yearly resolution



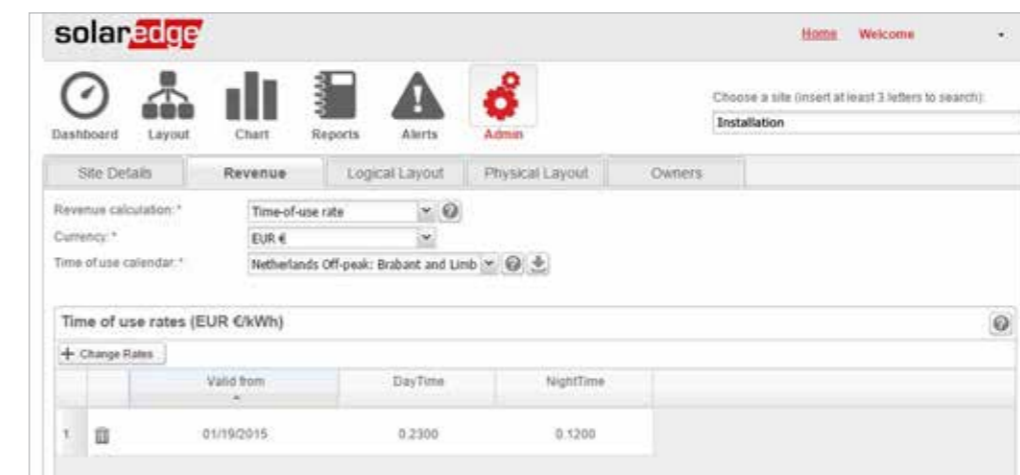
Performance Ratio - Analyze and track the system's performance ratio using satellite data or onsite sensors

3. Pinpointed and automatic alerts for immediate fault detection, accurate maintenance, and rapid response. The alerts show the specific fault location, fault description, and fault status. Energy thresholds alerts can be set to detect underperforming modules. Custom settings available for time of day and offset from sunrise and sunset.



Item #	Manufacturer	Model	Serial Number	Last Measured	Current [A]	Optimiser Volt. [V]	Power [W]	Voltage [V]	Energy [kWh]
Panel 25.134	Trina Solar	TSM-235PC 05	00100290-04	04052014 8:	3.53	27.86	117.65	33.38	11,887.75
Panel 25.135	Trina Solar	TSM-235PC 05	00100290-09	04052014 8:	3.38	27.38	114.95	34	11,675
Panel 25.136	Trina Solar	TSM-235PC 05	00100483-0C	04052014 8:	3.49	18.13	77.3	22.13	7,558

4. The time-of-use feature allows system owners to define peak and off-peak rates in order to track expected PV revenue. This may be used as an indication of the systems' ROI.

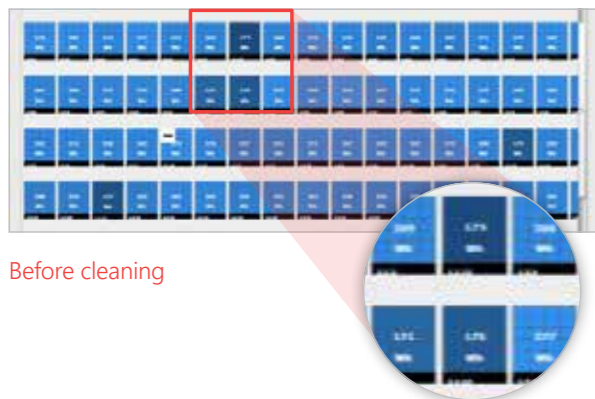




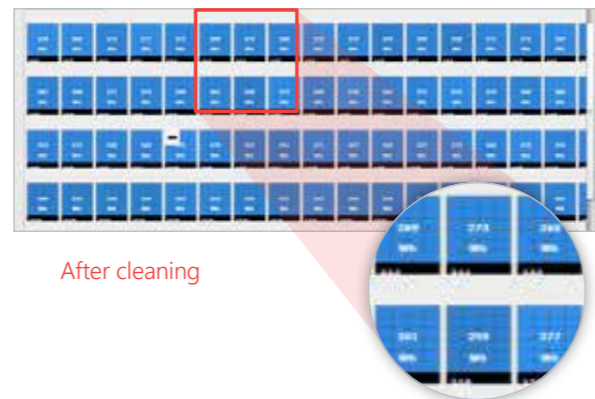
# PV Asset Management with Module-Level Monitoring (cont.)

- Accurate and remote troubleshooting for fast and efficient resolution with minimal and shortened on-site visits. Examples of identifying underperforming modules:

## Soiling

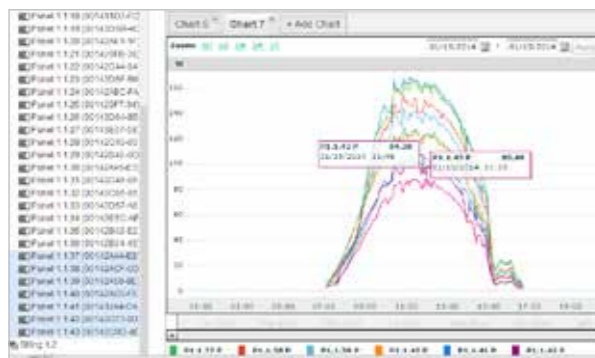


Before cleaning

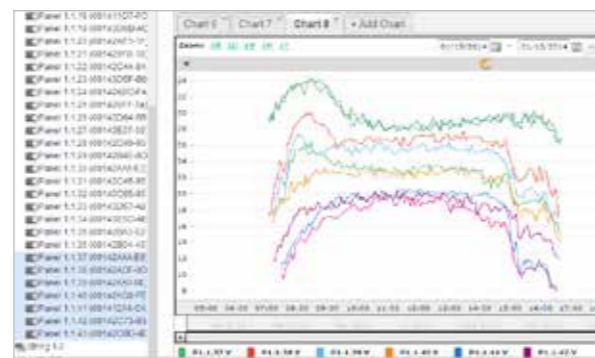


After cleaning

## Potential induced degradation (PID)



Looking at the modules within one string, it is possible to see the power degradation increasing towards the negative pole.



No need to send technicians to the roof – module voltage is measured remotely

## Bypass diode failure



It is easy to identify the bypass diode failure with the module-level voltage graphs. The faulty module outputs at only 2/3 of the voltage (5/6 in this case of Power Optimizer connected to two modules).

- The consumption monitoring feature shows data about electricity consumption, PV production, and self-consumption. This feature is integrated into all SolarEdge inverters and requires only a connection of a SolarEdge Energy Meter.





## Advanced Safety

With millions of photovoltaic (PV) systems installed worldwide, 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. With traditional inverters, shutting down the inverter or the grid connection will terminate current flow, but DC voltage in the string cables will stay high for as long as the sun is shining. In addition, electrical arcs, which can result in a fire, create a threat to people and assets 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, module-level safety feature which minimizes electrocution risk.

To maintain string voltage below risk levels, Power Optimizers are designed to automatically switch into safety mode, in which the output voltage of each module will be reduced to 1V in either of these cases:

- During installation, when string is disconnected from the inverter, or the inverter is turned off
- During maintenance or an emergency, when the inverter or AC connection is shut down

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.

### Rapid shutdown capabilities

SolarEdge's optional rapid shutdown feature supports fast DC discharge to safe voltage levels within just 30 seconds, for even greater protection.

### 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. Currently there is no comparable arc detection standard in the EU and therefore non-US SolarEdge inverters can detect and interrupt arcs as defined by the UL1699B standard. In addition to manual restart, a mechanism for auto-reconnect can be enabled during system commissioning.

### Built-in temperature monitoring

Thermal sensors integrated into the system detect faulty wiring that can potentially cause electric arcs.

### Favored by global solar insurance companies

SolarEdge's multi-layered, holistic safety approach make it a favored PV solution of worldwide solar insurance companies. It also meets leading property insurance company FM Global's DS 1-15 engineering requirements.

**Note:** Safety functionalities described above may vary between different inverter models and firmware versions, and are applicable when inverter is turned on

Watch our  
Safety video





## Future Compatibility & Warranty

As part of PV asset management planning, it is important to account for future costs that can impact the return on investment of a PV system. The SolarEdge DC optimized inverter solution effectively minimizes these potential costs.

Forward compatibility eliminates expensive stock of spare module inventory.

- Replacement: SolarEdge allows modules of different power classes and brands in the same string.
- Expansion: New Power Optimizers can be utilized in the same string with older models.

SolarEdge offers a 25-year Power Optimizer warranty, 12-year inverter warranty, and free monitoring for 25 years. SolarEdge offers extended warranties at attractive prices.



**Power Optimizers**  
605W-1100W



**Three phase inverters**  
15kVA-100kVA



**Monitoring Platform**

SolarEdge provides low-cost inverter replacement out of warranty

- ~40% less than traditional inverters

Products are certified for ammonia resistance - suitable for agricultural areas



756 kWp SolarEdge System, Farmington, IL  
Installed by Clean Energy Design Group, Inc

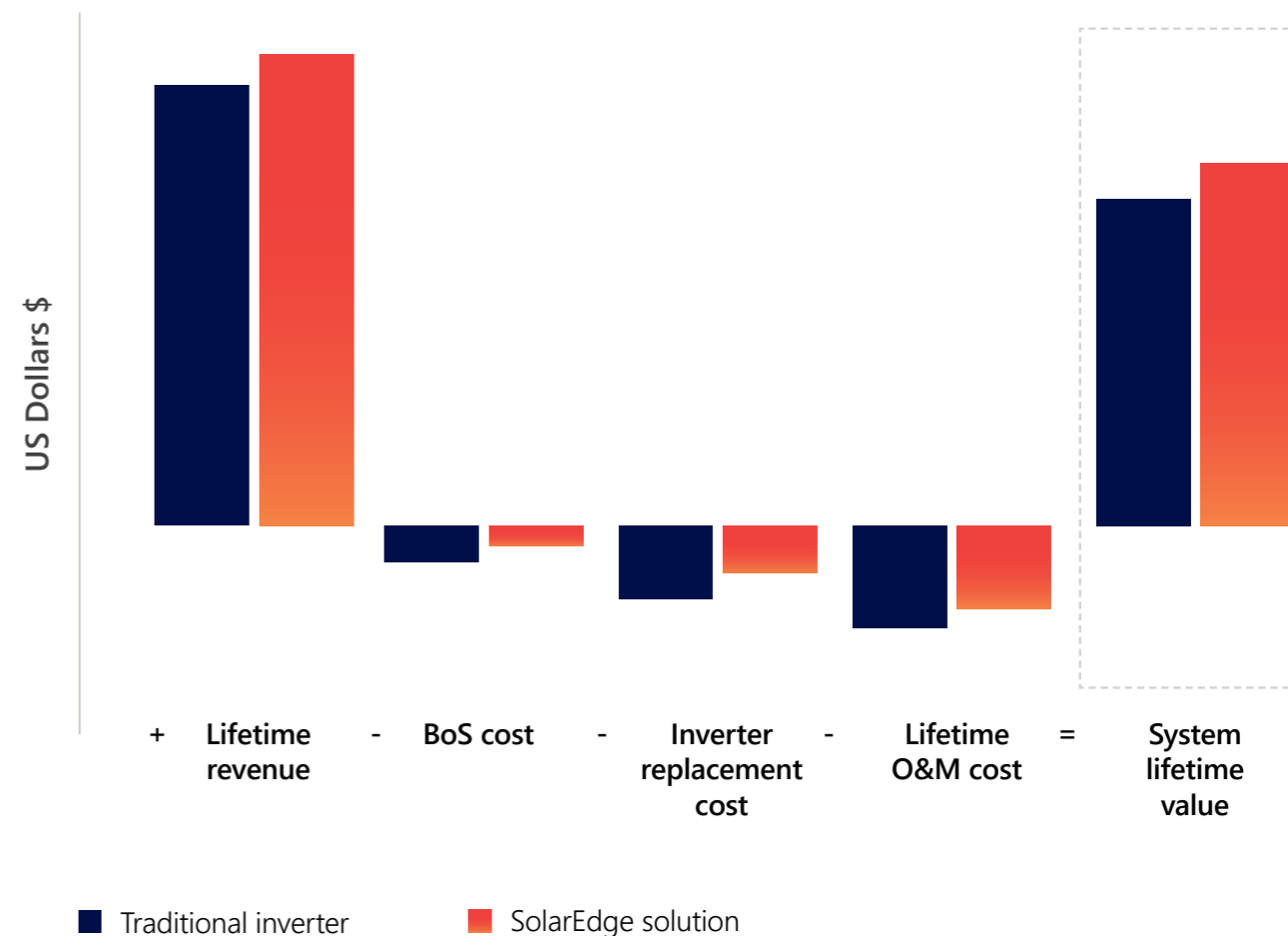


## A Higher Lifetime Value

The SolarEdge DC optimized inverter solution offers a better LCOE for a system's lifetime by maximizing yield and reducing costs.

The SolarEdge DC optimized inverter solution maximizes power generation at the individual module level, which leads to a higher lifetime revenue from PV systems. While the initial cost of the SolarEdge solution is generally slightly higher than the equivalent traditional inverter system, the total installation cost as well as the lifetime maintenance cost is lower. This makes the SolarEdge solution more economically attractive.

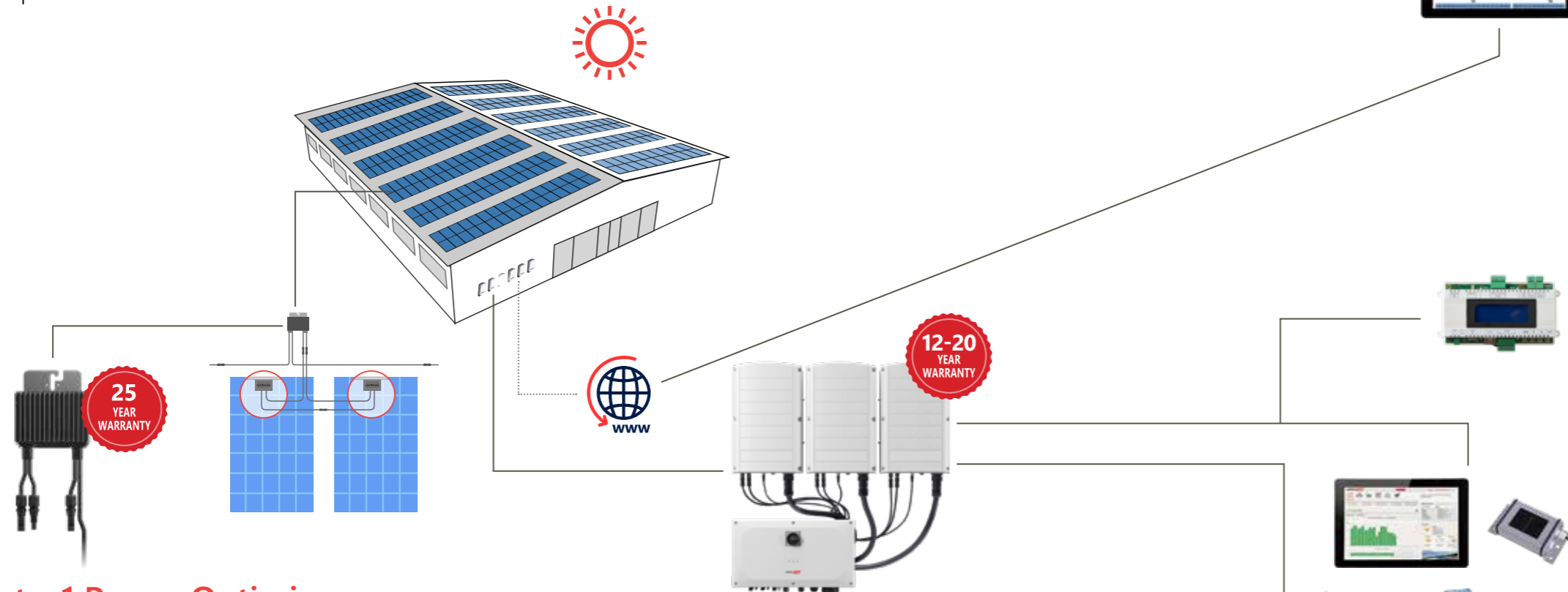
### Lifetime PV system cost and revenue



1.3MW SolarEdge system, Arizona, USA  
 Developed by AES Distributed Energy, Inc. (formerly Main Street Power)  
 Installed by Rosendin Electric

# Commercial System Diagram

The SolarEdge solution consists of inverters, Power Optimizers, and a Monitoring Platform. The technology provides superior power harvesting and module management by connecting Power Optimizers at the module level. The ability to connect two modules to one Power Optimizer, combined with DC to AC conversion and grid interaction being centralized at a simplified PV inverter maintains a competitive cost structure.



## 2-to-1 Power Optimizer configuration

- Module-level MPPT - no mismatch power losses
- Strings of uneven lengths, modules on multiple azimuths & tilts
- Compatible with SolarEdge inverters SE15K & larger
- SafeDC™ - automatic module-level safety shutdown

## 15kVA-120kVA inverters

- Specifically designed to work with Power Optimizers
- Easy installation, including 2-person install for large capacity models
- Innovative pre-commissioning tool for validating each stage of the install process (on selected models)
- Step-by-step inverter activation and commissioning with SetApp
- Built-in communication hardware
- Advanced safety features, including built-in arc fault protection and optional rapid shutdown
- Embedded export limitation
- Built-in (optional) AC, DC, and RS485 surge protection (on selected models)

## Monitoring Platform

- Full visibility of system performance
- Remote troubleshooting
- Access via browser or any Android, iOS smart phone or tablet
- Communication with the Power Optimizers over existing DC power lines (PLC)

## Commercial gateway

Connection of multiple environmental sensors to analyze system performance

## Performance monitoring

Calculate site performance ratio and measure environmental conditions, using environmental sensors or a satellite-based service.

## Grid interaction

Supports power control, e.g. zero export limitation, local and remote active/reactive power control, inverter AC relay control for secondary grid protection; low voltage and frequency ride through.

# 1.96MWp Rooftop System Comparison

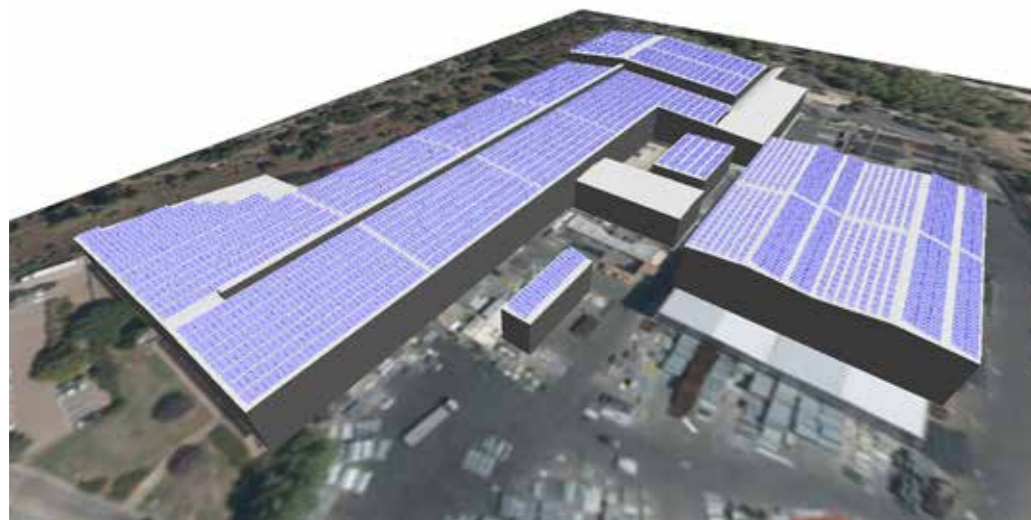
## Comparison of a 1.96MWp SolarEdge system to an identical system with a traditional string inverter

The system comprises 1,000 × 480Wp modules. One system was designed with 14 × SE100K SolarEdge Synergy technology inverters and 2,040 × P1100 Power Optimizers in a 2:1 configuration. The second system was designed with 28 × 75kW traditional string inverters.

### Energy comparison

PVsyst was used to simulate the yield of both systems in year 1 and year 20. The SolarEdge advantage grows over time due to its ability to mitigate the module mismatch caused by uneven PV module aging. Otherwise, there is the risk that eventually, the module voltage levels will decrease and exit the required voltage range needed for the inverter to perform MPP tracking.

	Traditional String Inverter	SolarEdge System	SolarEdge Advantage
PVsyst year 1 yield (MWh)	3,237	3,318	2.5%
PVsyst year 20 yield (MWh)	2,789	3,018	8.2%

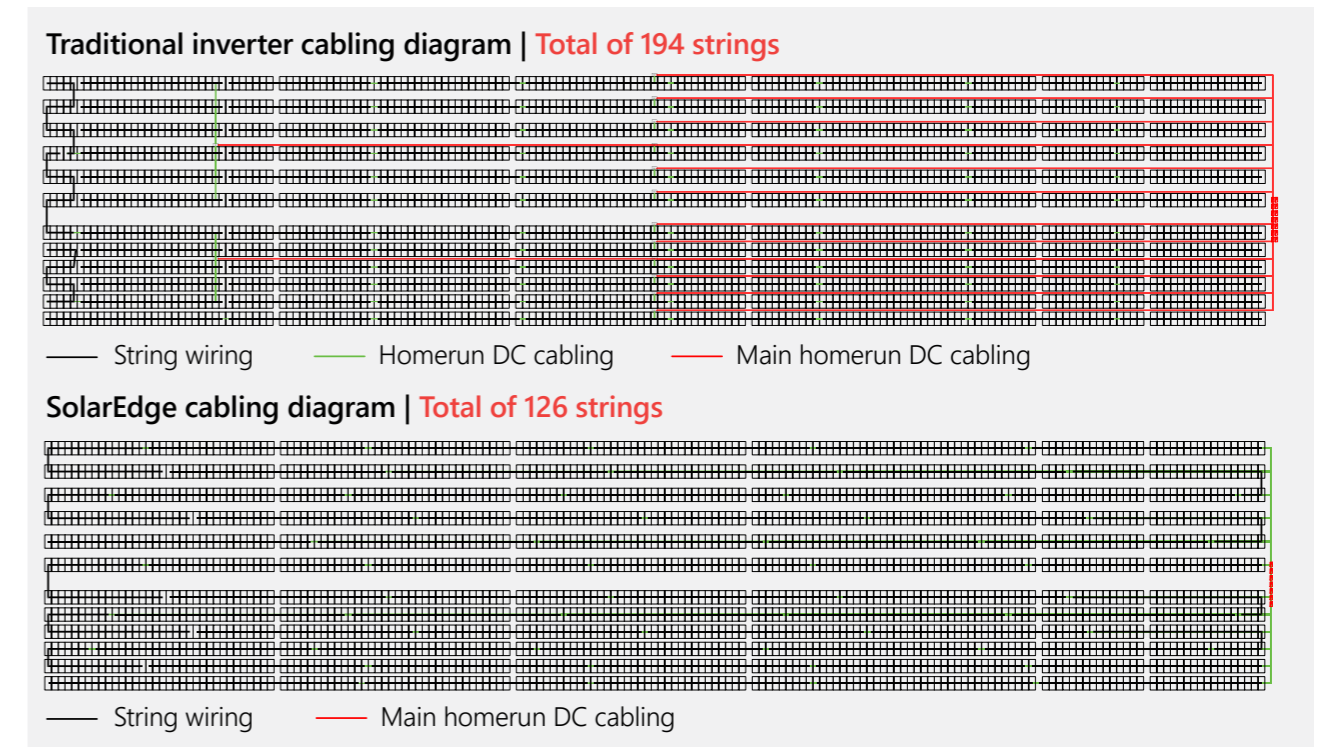


### BoS comparison

	Traditional String Inverter	SolarEdge DC Optimized Inverter
DC Power (MWp)	1.96	1.96
AC Power (MVA)	1.5	1.5
Modules (480Wp)	4,080	4,080
Inverters	28	14
No. of Strings	194	126
Modules per String	21	32/33
DC Cable CU 1 × 6mm <sup>2</sup> (m)	11,782	24,030
DC AL Cable 1 × 95mm <sup>2</sup>	6,768	-
DC Combiner Box	28	-
AC Cable N2XY 4 × 70mm <sup>2</sup>	140	-
AC Cable N2XY 4 × 90mm <sup>2</sup>	-	70
AC Combiner Box	1	1
MC4 Connectors (1 pair)	388	252
Datalogger	1	-
BoS Cost	100%	42%
BoS Cost Saving*		2.6 c/w

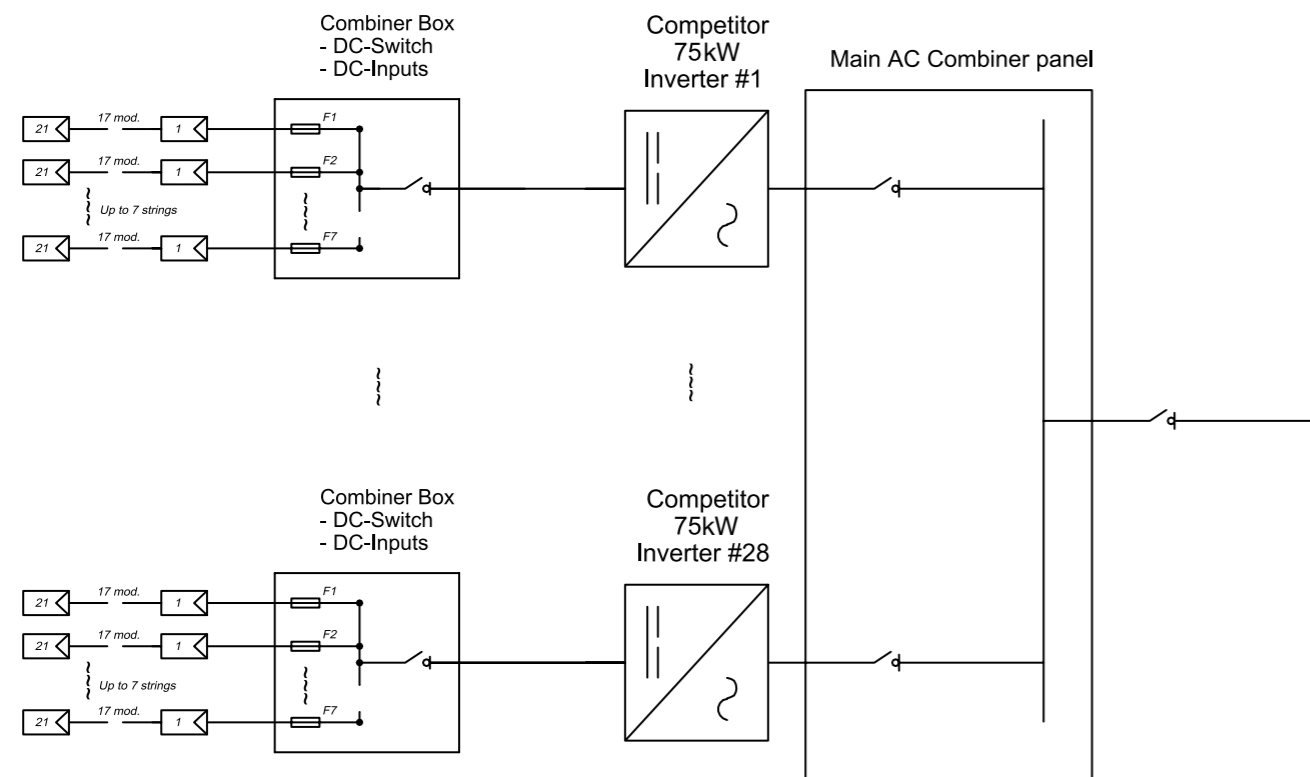
\* Estimated saving on BoS components based on typical market prices in €

### Cabling comparison

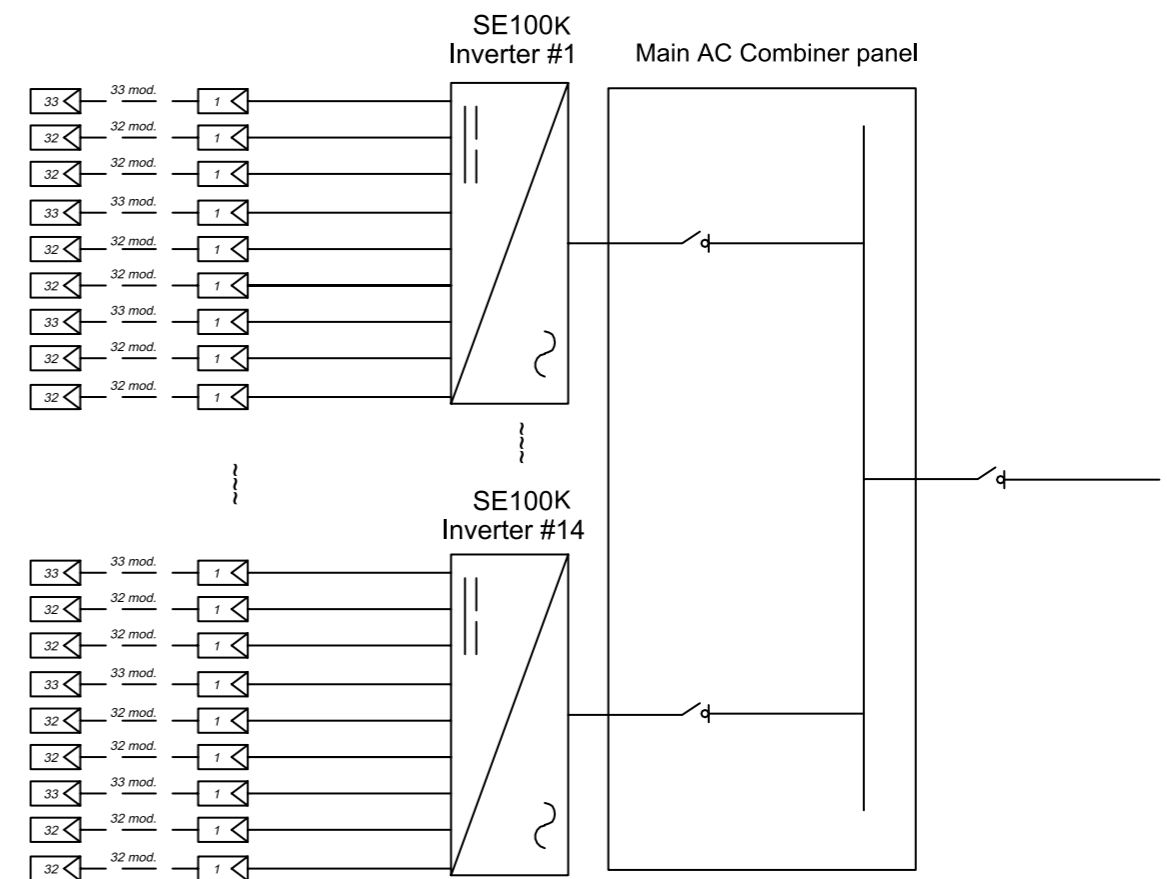


# 1.96MWp Rooftop System — Electrical Diagram Comparison

## Traditional string inverter system



## SolarEdge DC optimized inverter solution



# 2.44MWp Ground Mount System Comparison

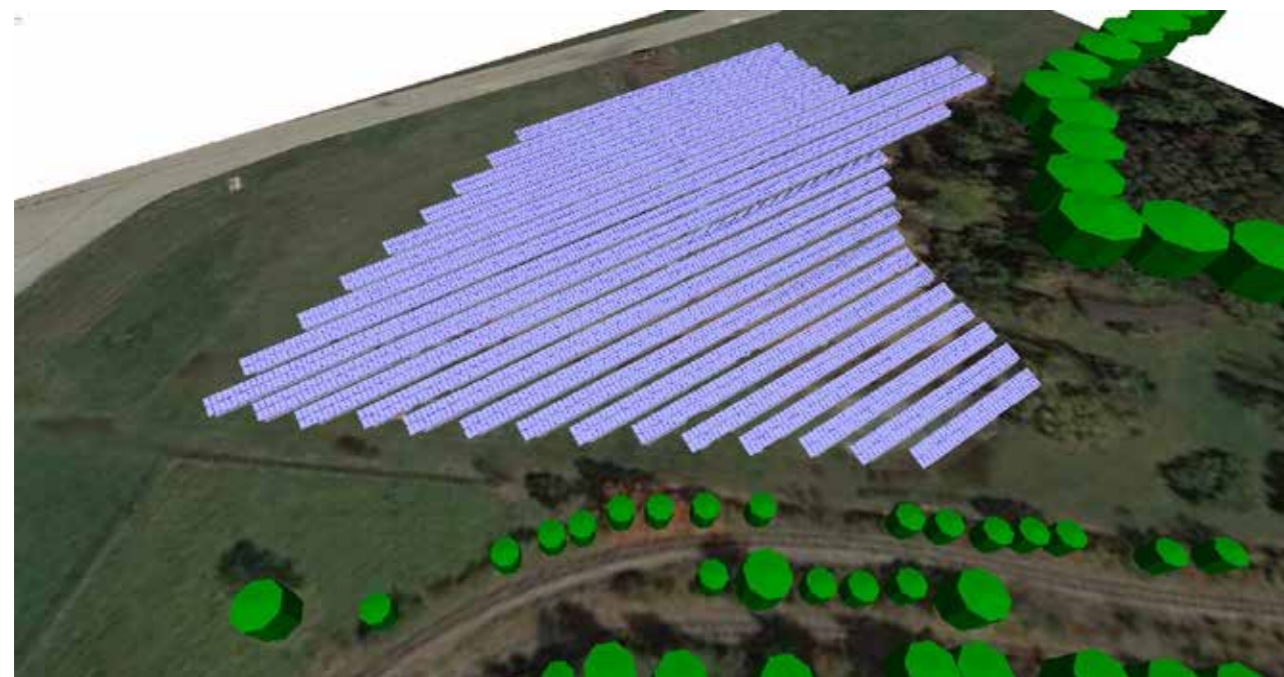
## Comparison of a 2.44MWp SolarEdge system to an identical system with a traditional string inverter

The system comprises 5,544 x 440Wp modules. One system was designed with 17 x SE120K SolarEdge Synergy technology inverters and 2,772 x P950 Power Optimizers in a 2:1 configuration. The second system was designed with 14 x 150kW traditional string inverters.

### Energy comparison

PVsyst was used to simulate the yield of both systems in year 1 and year 20. The SolarEdge advantage grows over time due to its ability to mitigate the module mismatch caused by uneven PV module aging. Otherwise, there is the risk that eventually, the module voltage levels will decrease and exit the required voltage range needed for the inverter to perform MPP tracking.

	Traditional String Inverter	SolarEdge System	SolarEdge Advantage
PVsyst year 1 yield (MWh)	3,187	3,249	1.9%
PVsyst year 20 yield (MWh)	2,834	3,005	6%

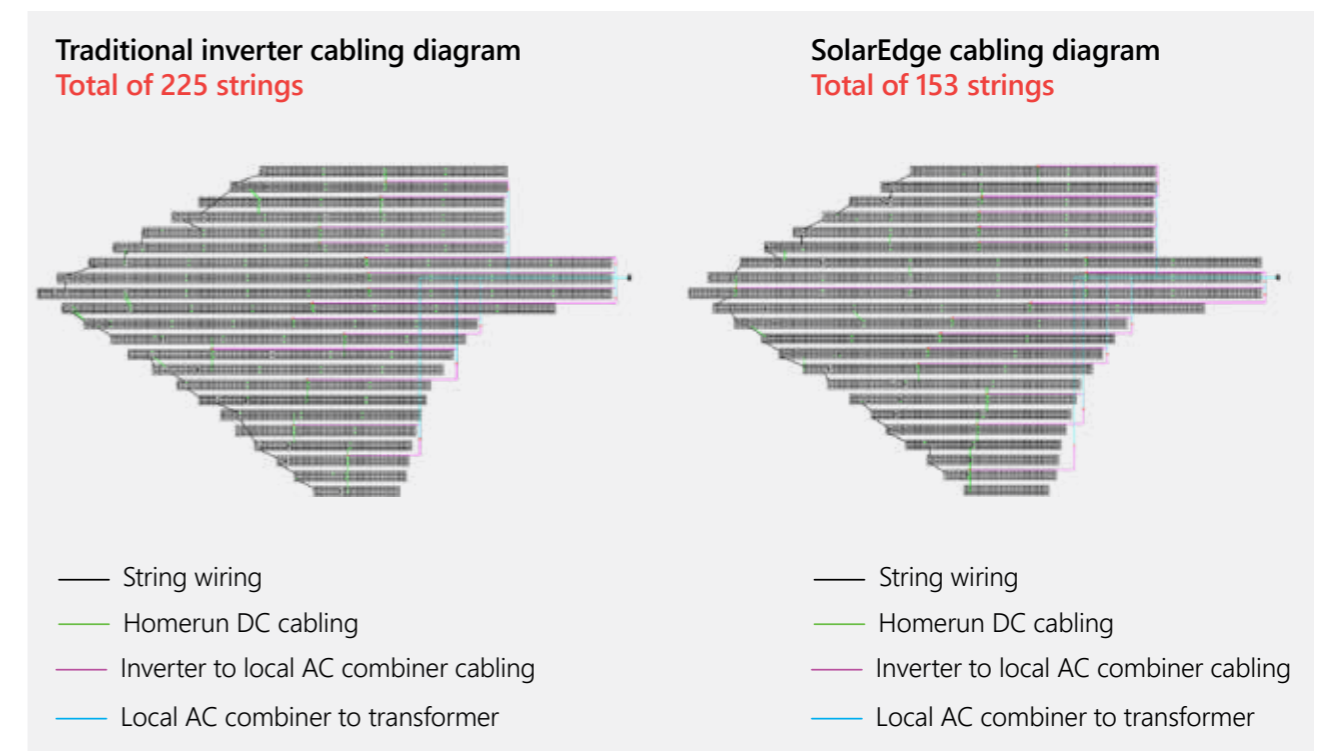


### BoS comparison

	Traditional String Inverter	SolarEdge DC Optimized Inverter
DC Power (MWp)	2.44	2.44
AC Power (MVA)	2.0	2.0
Modules (480Wp)	5,544	5,544
Inverters	14	17
No. of Strings	225	153
Modules per String	25	36
DC Cable CU 1 x 6mm <sup>2</sup> (m)	13,787	6,424
DC AL Cable 1 x 120mm <sup>2</sup>	140	-
DC Combiner Box	14	-
AC Cable N2XY 2 x (3 x 120mm <sup>2</sup> ) + 120mm <sup>2</sup>	529	733
AC Cable N2XY 4 x 120mm <sup>2</sup>	1,156	1,375
AC Combiner Box	7	8
MC4 Connectors (1 pair)	225	153
Datalogger	1	-
BoS Cost	100%	85%
BoS Cost Saving*		0.57 c/w

\* Estimated saving on BoS components based on typical market prices in €

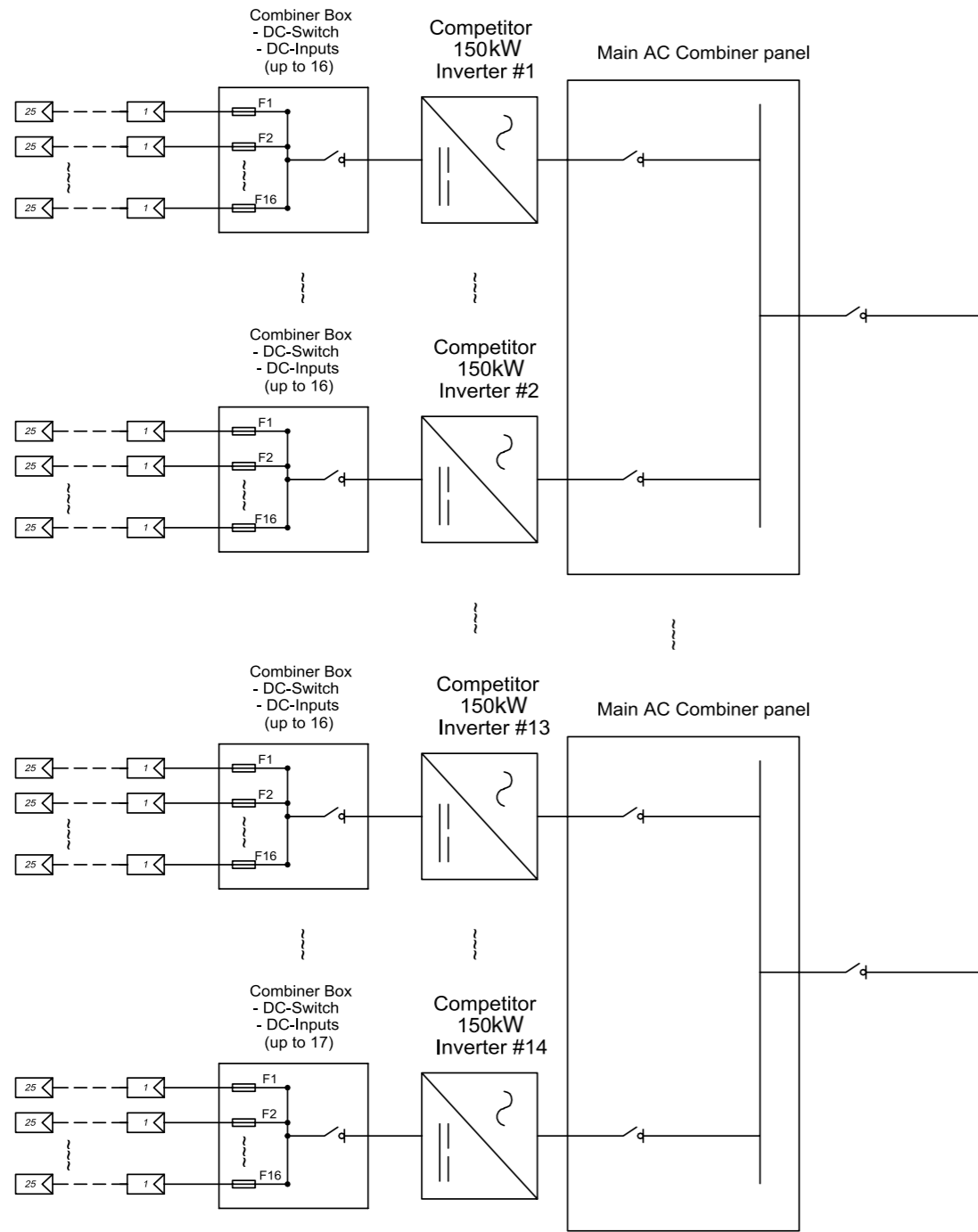
### Cabling comparison



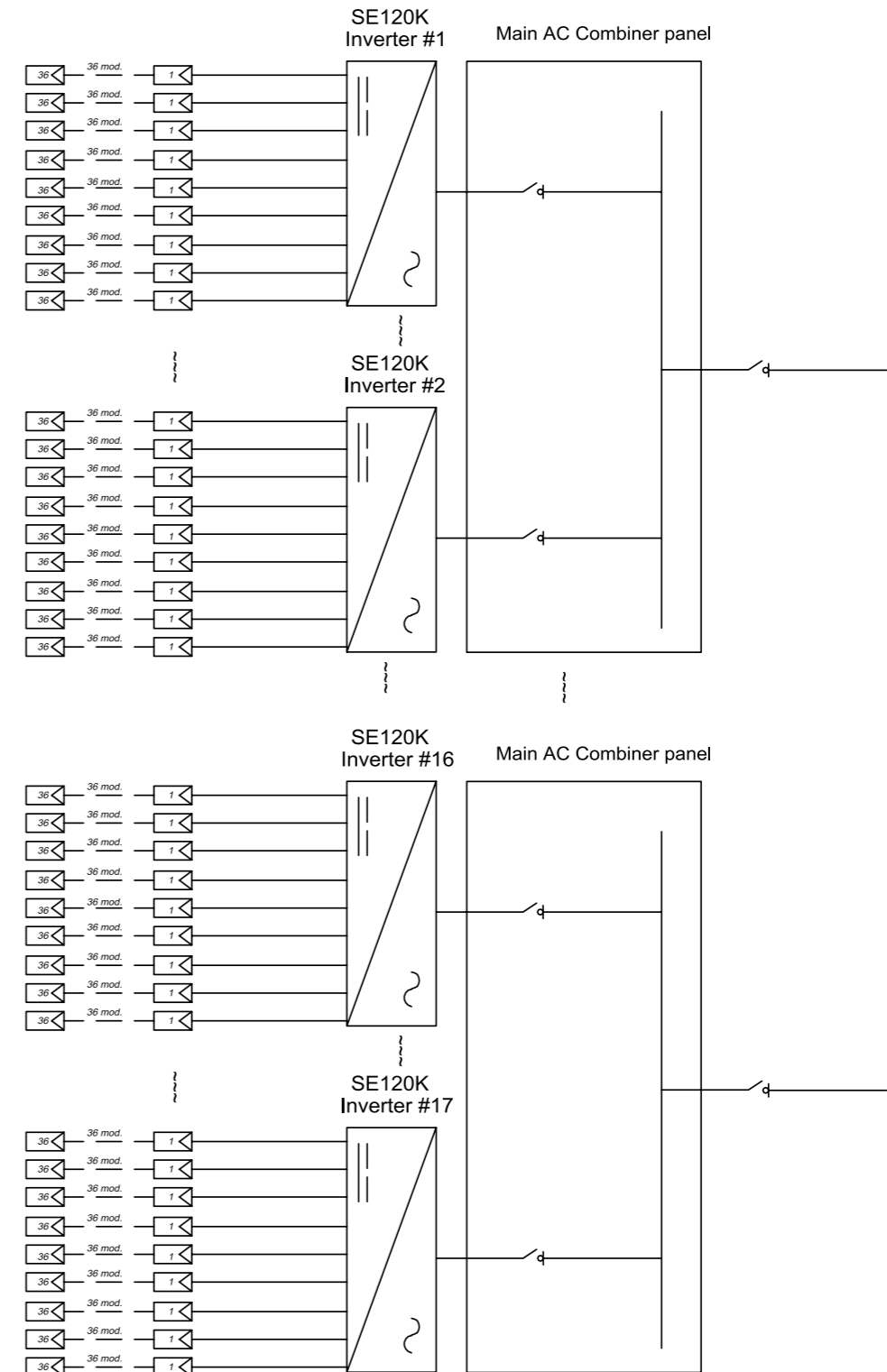


# 2.44MWp Ground Mount System — Electrical Diagram Comparison

## Traditional string inverter system



## SolarEdge DC optimized inverter solution



# Commercial Product Offering



## Three Phase Inverters

- / 12.5kW-40kW models
- / Fixed voltage inverters for superior efficiency and longer strings
- / Integrated arc fault protection and optional rapid shutdown



## Three Phase Inverters with Synergy Technology

- / 66.6kW-120kW models
- / Combines large capacity with ease of installation
- / Reduces time on site with automatic system validation before grid connection



## Power Optimizers

- / P605-P1100 and S1200 models for module outputs up to 600W
- / Module-level optimization with 1:1 or 2:1 PV module to Power Optimizer ratio
- / Advanced safety features for maximum protection of people and property
- / Supports all module types including high power and bi-facial



## Monitoring Platform

- / Free, real-time system visibility at the module level, anytime, anywhere
- / Pinpointed alerts for faster maintenance and higher system uptime
- / Dedicated Monitoring installer app and mySolarEdge app for system owners



## SolarEdge Designer

Online tool to plan, build and validate your SolarEdge systems from inception to installation



## Installation and Commissioning Tools

- / **SetApp**: Easy inverter commissioning direct from the installer's smartphone
- / **Mapper**: Quick creation of virtual site maps in the Monitoring Platform via a mobile app



## Communications Devices

Multiple options for wireless connection of inverters to the SolarEdge monitoring server, such as Wi-Fi, cellular and ZigBee



## Energy Meter & Current Transformers

Supports high accuracy production/consumption monitoring, and export limitation



## Performance Monitoring

Calculate site performance ratio and measure environmental conditions









## Surge Protection Devices

Protect the AC/DC power lines and RS485 communication buses of SolarEdge Three Phase Inverters from electrical surges, such as lightning.

# Commercial Offering Ordering Information





Contact your local SolarEdge distributor for more details






Part Number	Product Description	
<b>Three Phase Inverters: with SetApp inverter configuration, 12-year warranty included</b>		
SE15K-RW0TOBNN4	Three Phase Inverter, 15.0kW	
SE16K-RW0TOBNN4	Three Phase Inverter, 16.0kW	
SE17K-RW0TOBNN4	Three Phase Inverter, 17.0kW	
SE25K-RW00IBNN4	Three Phase Inverter, 25kW, with MC4 connectors	
SE33.3K-RW00IBNN4	Three Phase Inverter, 33.3kW, with MC4 connectors	
SE40K-RW08IBNN4	Three Phase Inverter, 40kW for 277V/480V Grid, with MC4 connectors	
<b>Three Phase Inverters: with SetApp inverter configuration, Gland Connectors, DC Safety Unit, including DC Safety Switch, AC &amp; DC Surge Protection (Type II) and Fuses. 12-year warranty included</b>		
SE25K-RW00IBND4	Three Phase Inverter, 25kW	
SE33.3K-RW00IBND4	Three Phase Inverter, 33.3kW	
SE40K-RW08IBND4	Three Phase Inverter, 40kW for 277V/480V Grid	
<b>Three Phase Inverters: with SetApp inverter configuration, Gland Connectors, DC Safety Unit including DC Safety Switch, AC &amp; DC Surge Protection (Type II), Fuses, and Automatic Rapid Shutdown. 12-year warranty included</b>		
SE33.3K-RWR0IBNZ4	Three Phase Inverter, 33.3kW	
SE40K-RWR8IBNZ4	Three Phase Inverter, 40kW for 277V/480V Grid	
<b>Three Phase Inverters with Synergy Technology - Synergy Manager, with SetApp inverter configuration, MC4 Connectors, DC Safety Switch, DC Surge Protection (Type II) and Fuses. 12-year warranty included</b>		
SE66.6K-RW00IBNC4	Synergy Manager, 66.6kW	
SE90K-RW00IBNC4	Synergy Manager, 90kW	
SE100K-RW00IBNC4	Synergy Manager, 100kW	
SE120K-RW08IBNC4	Synergy Manager, 120kW for 277V/480V Grid	
<b>Three Phase Inverters with Synergy Technology - Synergy Unit: 12-year warranty included</b>		
<ul style="list-style-type: none"> <li>/ Synergy Managers ≤80kW require 2 x Synergy Units</li> <li>/ Synergy Managers &gt;80kW require 3 x Synergy Units</li> </ul>		
SESUK-RW00INNN4	Synergy Unit	
SESUK-RWR0INNN4	Synergy Unit, with Automatic Rapid Shutdown	

Part Number	Product Description	
<b>Power Optimizers; 25-year warranty included</b>		
P601-4RM4MBN	Designed for 1 x high current modules, up to 14A, with max Vin (@ min temp) 65V, output cable length 1.4m	
P605-4RM4MBN	Designed for 1 x high power/bi-facial, with max Vin (@ min temp) 65V output cable length 1.4m	
P850-4RM4MBY	Designed for high power/bi-facial, 2 in series, max input voltage (@ min temp) 125V, output cable length 2.2m	
P850-4RMXMBY	Designed for high power/bi-facial, 2 in series, max input voltage (@ min temp) 125V, output cable length 2.2m, input 1.3m	
P860-4RMDMBY	Designed for high power/bi-facial, 2 in parallel, max input voltage (@min temp) 60V, output cable length 2.2m, input 0.16m for RSD	
P860-4RDYMBY	Designed for high power/bi-facial, 2 in parallel, max input voltage (@min temp) 60V, output cable length 2.2m, input 1.6m for RSD	
P950-4RM4MBM	Designed for high power/bi-facial, 2 in series, max input voltage (@min temp) 125V, output cable length 1.2m	
P950-4RM4MBY	Designed for high power/bi-facial, 2 in series, max input voltage (@min temp) 125V, output cable length 2.2m	
P950-4RMXMBY	Designed for high power/bi-facial, 2 in series, max input voltage (@min temp) 125V, output cable length 2.2m, input 1.3m	
P960-4RMDMBZ	Designed for high power/bi-facial, 2 in parallel, max input voltage (@min temp) 60V, output cable length 2.3m, input 0.16m for RSD	
P1100-4RMLMBL	Designed for high power/bi-facial, 2 in series, max input voltage (@min temp) 125V, output cable length 1.8m, input 0.9m	
P1100-4RM4MBT	Designed for high power/bi-facial, 2 in series, max input voltage (@min temp) 125V, output cable length 2.4m	
P1100-4RMXMBT	Designed for high power/bi-facial, 2 in series, max input voltage (@min temp) 125V, output cable length 2.4m, input 1.3m	
S1200-1GM4MBV	S-Series, input up to 1,200Wp, 2 in series, output cable length 5.4m	
S1200-1GMXMBV	S-Series, input up to 1,200Wp, 2 in series, output cable length 5.4m, input 1.3m	
<b>Power Optimizer Accessories</b>		
SE-20MF-MC4-SEAL	20 Pairs of MC4 Seals for Power Optimizer Connectors	

# Commercial Offering Ordering Information

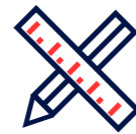
Contact your local SolarEdge distributor for more details

Part Number	Product Description		
<b>Communication Products</b>			
SE1000-CCG-G-S1	Commercial Gateway		
SE1000-CCG-F-S1	Firefighter Gateway		
SE-ANT-ZBWIFI-KIT	Antenna Kit for Wi-Fi Communication (5 pcs) for Inverters with SetApp Configuration		
<b>Surge Protection Kits</b>			
SE-RS485-SPD3-B-K4	RS485 Surge Protection Kit for SE15K-SE40K and SE66.6K-120K Synergy Manager and Synergy Units		
SE-DC-SPD-I	DC Surge Protection upgrade kit, SE25-40K-*IBN*4		
SE-AC-SPD-I	AC Surge Protection upgrade kit, SE25-40K-*IBN*4		
<b>Environmental Sensors</b>			
SE1000-SEN-TAMB-S2	Ambient Temperature Sensor 0-10V		
SE1000-SEN-TMOD-S2	Module Temperature Sensor 4-20mA		
SE1000-SEN-IRR-S1	Irradiance Sensor 0-1.4V		
SE1000-SEN-WIND-S1	Wind Velocity Sensor 4-20mA		
Warranty and service for these products is provided directly by Ingenieurbüro Mencke & Tegtmeyer GmbH. For more details, go to: <a href="http://www.imt-solar.com/products.htm">http://www.imt-solar.com/products.htm</a>			
<b>Metering Solutions; with 5-year warranty for all Energy Meter models</b>			
SE-MTR-3Y-400V-A	1ph/3ph 230/400V, Energy Meter with Modbus Connection, DIN-Rail		
SE-WND-3Y400-MB-K2	1ph/3ph 230/400V, Energy Meter with Modbus Connection, DIN-Rail (for Thailand, MEA)		
SE-RGMTR-3D-208V-A	3ph 3-Wire Delta, 208V Energy Meter, ANSI CLASS 05		
SE-RGMTR-3Y-208V-A	3ph 4-Wire Delta, 208V Energy Meter, ANSI CLASS 05		
SE-RGMTR-3Y-480V-A	3ph WYE, 480V Energy Meter, ANSI CLASS 05		
SECT-SPL-100A-A	100A Split-Core Current Transformer, for 50/60Hz		
SECT-SPL-250A-A	250A Split-Core Current Transformer, for 50/60Hz		
SECT-SPL-1000A-A	1000A Split-Core Current Transformer, for 50/60Hz		
SEACT1250-400NA-20	400A CT, for Split or Delta Grid 230V for 60Hz, Box of 20		
SE-CTB-4X4-1200	Bus-Bar CT, 4.0" x 4.0", 1200A, 1.5% acc.		
SE-CTB-4X4-2000	Bus-Bar CT, 4.0" x 4.0", 2000A, 1.5% acc.		
SE1000-S0IF01	S0 meter adapter cable		
<b>Professional Services</b>			
SE2000-PFSV-MSDC-4BPC	Site Power Controller: dynamic control of site power, active power & reactive power, with 2-year warranty		
SE2000-PFSV-MSDC-DG	Alternative Power Source Hybrid Solution: controller that integrates an alternative power source with a PV production system, with 2-year warranty		
WE-PFSV-MSDC-5	Warranty Extension, 5 years, Site Power Controller		
SEFP-PFSV-10Y	Site Data FTP: Web FTP site for monitoring data		

Part Number	Product Description	
<b>Professional Services</b>		
SEPS-DEV-CMUI-KIOSK	Customized monitoring user interface development. Will be quoted upon demand.	
OSC-PFSV-HS	Professional Services on-site support & integration, hourly service. Minimum 4 hours.	
OSC-PFSV-FD	Professional Services on-site support & integration, full day	
RS-PFSV-005	Professional Services remote support. Annual service. Yearly payment.	
<b>Inverter Warranty Extensions</b>		
<b>Purchased within 24 months of shipment date, up to 20 years</b>		
WE-3H-20	20 years, Three Phase Inverter ≥ 15kW, <25kW	
WE-3SH-20	20 years, Three Phase Inverter 25-40kW	
<b>For Three Phase Inverters ≥25kW with DC Safety Unit, purchased within 24 months from shipment date</b>		
WE-3SH-20DCD	20 years, Three Phase Inverter 25-40kW	
<b>For Three Phase Inverters with Synergy Technology, purchased within 24 months from shipment date</b>		
WE-3MH-20	20 years, Three Phase Inverter with Synergy Technology 55-66.6kW	
WE-3UH-20	20 years, Three Phase Inverter with Synergy Technology 82.8-100kW	
<b>For Three Phase Inverters with Synergy Technology including Synergy Manager + Units, purchased within 24 months from shipment date</b>		
WE-3LSM-20	20 years, Three Phase Inverter with Synergy Technology - Manager and Unit ≤80kW	
WE-3HSM-20	20 years, Three Phase Inverter with Synergy Technology - Manager and Unit >80kW	
<b>Monitoring Tools</b>		
Free, real-time, module-level monitoring of PV system performance via the SolarEdge Monitoring Platform. Accessible from your computer or mobile device	For full details about the Monitoring Platform visit: <a href="http://www.solaredge.com/products/pv-monitoring#/">http://www.solaredge.com/products/pv-monitoring#/</a>	
SE-SAT-PR-S1	Satellite-based Performance Ratio; one site, for one year	
SE-SAT-PR-S2	Satellite-based Performance Ratio; one site, for one year plus one year historical data	
<b>SolarEdge Designer</b>		
A web-based tool to plan, build and validate your SolarEdge systems from inception to installation	For full details about the Designer tool visit: <a href="https://www.solaredge.com/products/installer-tools/designer#/">https://www.solaredge.com/products/installer-tools/designer#/</a>	

# Comprehensive Service Suite

SolarEdge supports you throughout your PV project life cycle. We provide the tools and services to help you grow your business with us.



Project design & pre-sale



Project execution



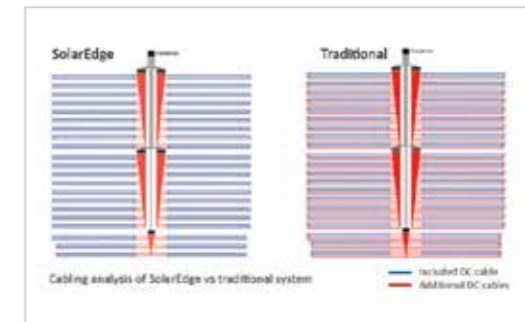
Operation & maintenance

## Project design and pre-sale

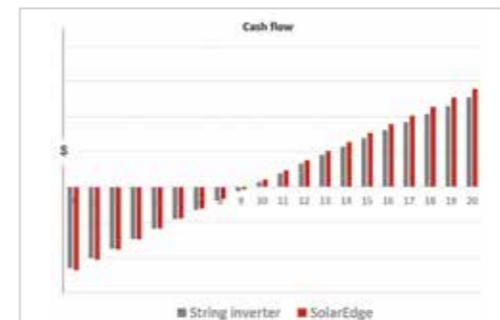
Our dedicated tools and engineering services help you close deals.



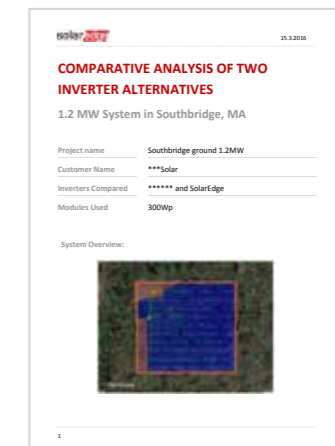
Training and tools help your sales team convey the added value of the SolarEdge solution



Tailor-made design optimization by SolarEdge pre-sale engineers



LCOE and ROI analysis



PV simulation and comparative system analysis

# Comprehensive Service Suite (Cont.)

## Project execution

Our advanced tools and features will assist you to execute projects easily and smoothly.



**Project design validation** prior to installation



**Hands-on installation training** by local field engineers



**Installation validation checklist**



**DC safety** protecting installers from high DC voltage



**Easy and flexible string layout**



**Remote and on-site installation support** by local service teams



**Easy inverter activation and commissioning** using the SetApp mobile application



**Remote operations** to commission and activate the installation

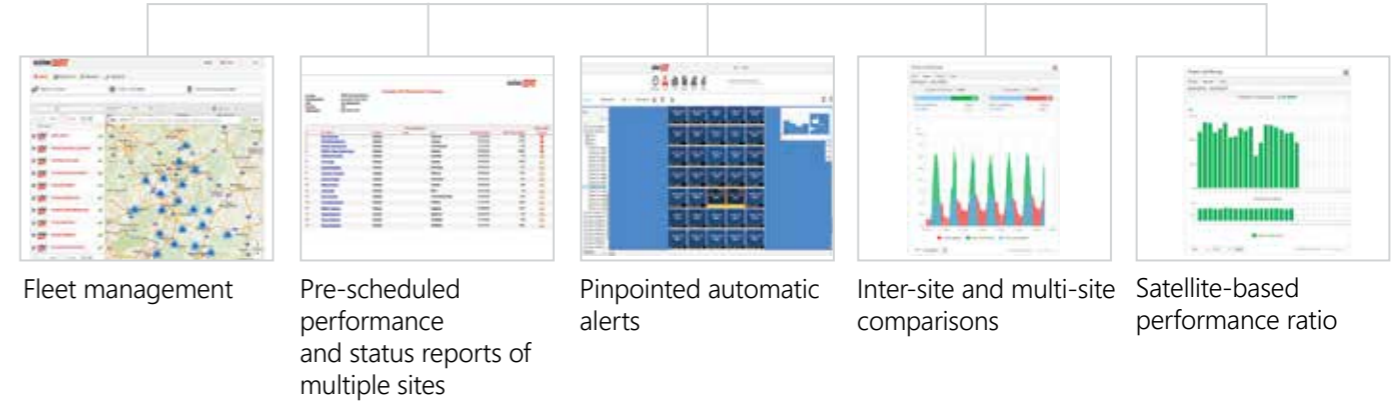


**Automatic commissioning report**

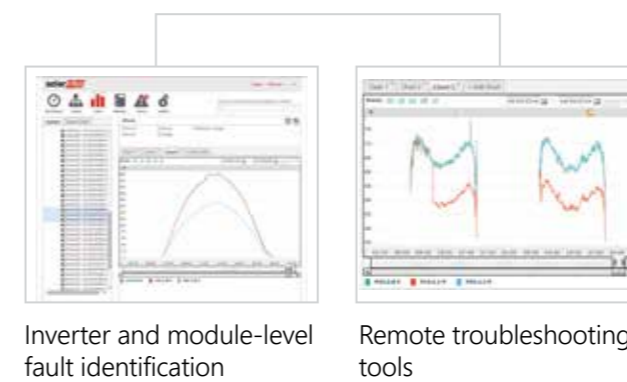
## Operation & maintenance

Our advanced Monitoring Platform allows you to guarantee system availability and high performance ratio for system lifetime.

### Performance monitoring



### Fault detection



### Executive reporting



Site specific automated production reports

### Service



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

SolarEdge developed an intelligent inverter solution that changed the way power is harvested and managed in photovoltaic (PV) systems. The SolarEdge DC optimized inverter maximizes power generation while lowering the cost of energy produced by the PV system.

Continuing to advance smart energy, SolarEdge addresses a broad range of energy market segments through its PV, storage, EV charging, UPS, and grid services solutions.

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