

# Commercial Offering for Installers & EPCs

for Europe





# About SolarEdge

## Our Fields of Vision



Carports



Small-Medium Enterprises



Ground Mount



Agriculture



Educational Institutions



Healthcare



Government



Floating Systems



Retail/Warehouses

## Making a World of Difference

SolarEdge Monitoring Platform continuously tracks more than **4 million** installations across the globe

**4,600+** employees worldwide

**647** awarded patents

Systems installed in over **140 countries**

**527** additional patent applications

**54.5GW** of clean energy delivered

**>50%** of Fortune **100 companies** have SolarEdge systems on their rooftops

Diversified global manufacturing capabilities

## Global Reach

SolarEdge (NASDAQ: SEDG) is a global leader in smart energy, having revolutionized sustainable energy with a ground-breaking intelligent inverter solution that decreases energy costs while maximizing energy production.

## 360° Support

From project design through to commissioning and O&M, SolarEdge is here to help you grow your business. Our support centers, service fleet, and tools are available across Europe, around the clock.

## Corporate Social Responsibility

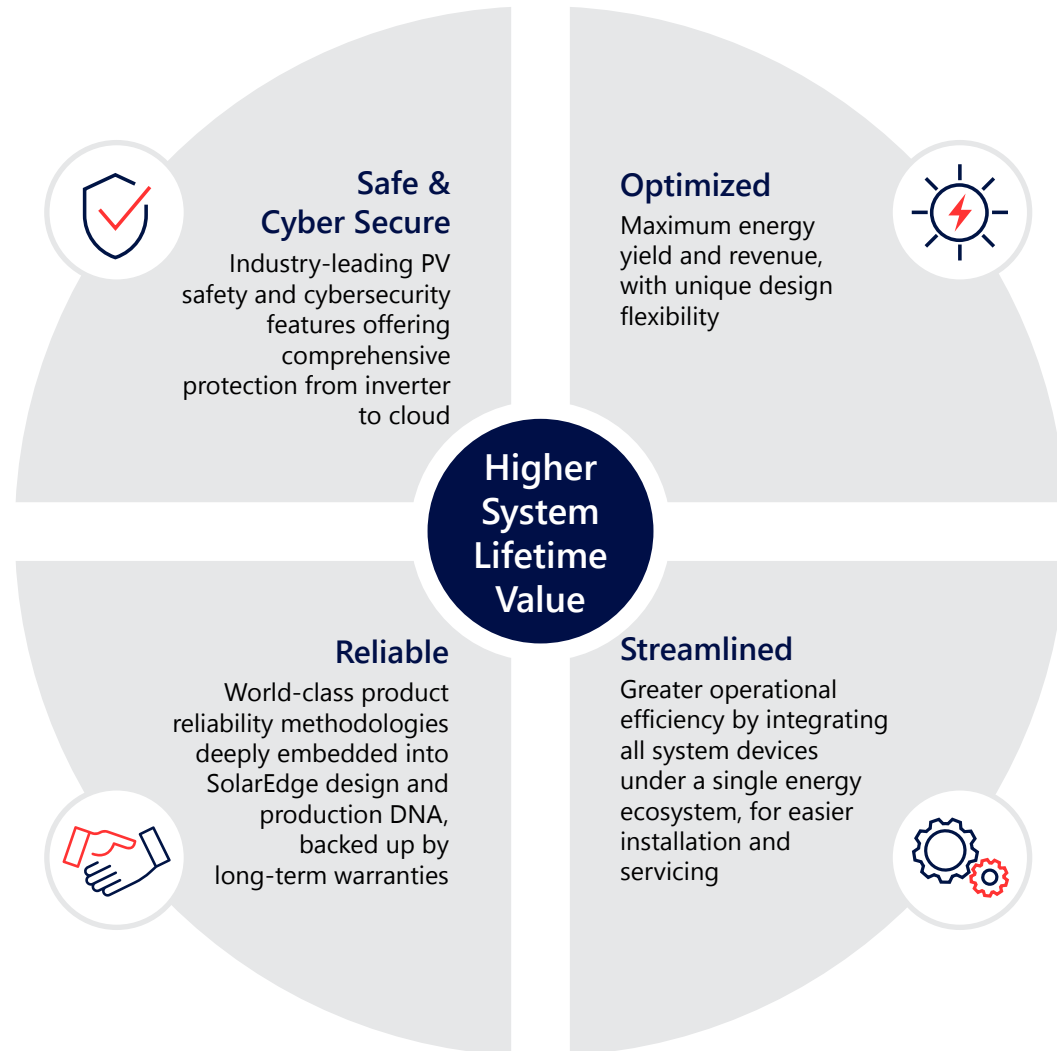
SolarEdge is committed to a sustainable world and is in full compliance with international standards on quality and control, ethical conduct, and environmental protection.

Read our [2023 Sustainability Report](#).

# SolarEdge's Standout Values

SolarEdge commercial solutions are driven by our DC-optimized technology, diverse product offering and industry-leading PV safety features.

Together, they help us meet the growing demand and complexities of the rapidly evolving commercial solar market, and provide our partners with the capabilities to power their PV business.





## Safe & Cyber Secure

### A world leader in solar safety

The SolarEdge solution is synonymous with safety, with over 50% of Fortune 100 companies having installed our systems on their rooftops. Our comprehensive suite of safety-related technology helps prevent thermal events before they occur, meeting and surpassing the most stringent international PV safety standards. Solar insurance companies around the world also favor our solution for added financial security.

SolarEdge's holistic approach to PV safety is built on three main foundations\*:

#### Prevention

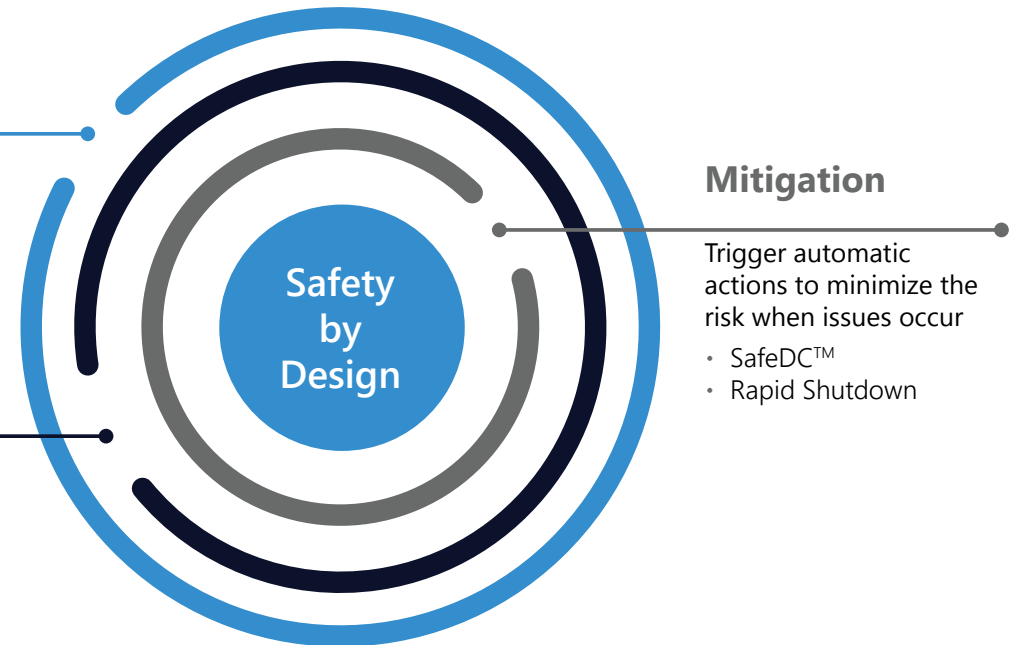
Identify early signs of electric arcs at the module level

- Sense Connect
- Built-in temperature sensors

#### Detection

Detect arcs and report errors to ensure the situation is handled by professionals

- AFCI
- System alerts



#### Mitigation

Trigger automatic actions to minimize the risk when issues occur

- SafeDC™
- Rapid Shutdown

\* Our safety features may vary between different products and firmware versions

Learn more about SolarEdge PV safety features



Brochure



Video



## Safe & Cyber Secure

### Setting the standard for solar cybersecurity

Just like solar safety, solar cybersecurity is non-negotiable. By partnering with SolarEdge you get extra protection, throughout the entire PV system lifetime. Our tiered approach to cybersecurity is aimed at protecting data integrity, communications, and business operations from site commissioning through to production.

To safeguard system connectivity, functionality, and customer data, SolarEdge follows the Cyber Informed Engineering (CIE) principle, embedding information security mechanisms into our products from the initial design stages. We continuously adapt and enhance our solutions to align with evolving demands and regulatory standards.

We prioritize the needs of our customers' security teams by designing products that are not only secure but also ensure maximum visibility and control for our users.

The energy sub-network is structured to securely integrate with your organizations' IT and OT networks.

User data and energy usage data is securely transferred and stored, ensuring maximum data privacy and protection from cyberthreats.

SolarEdge inverters are the heart of the PV system, and together with other SolarEdge devices, are designed to prevent and detect PV system-wide cyberattacks.

Visibility & control

Network security

Data security

Device security



## Optimized

### Maximum energy yield in commercial installations

Common in commercial installations, module-level mismatch occurs when PV modules in a string have different Maximum Power Points (MPPs), usually the result of soiling, shading, uneven terrain, or module aging. This decreases the energy yield of the entire string.

With Power Optimizers connected to every two modules, the SolarEdge solution mitigates power losses caused by module mismatch, resulting in maximum production from each module. The underperformance of one will not affect the rest of the system.

### Unique design flexibility

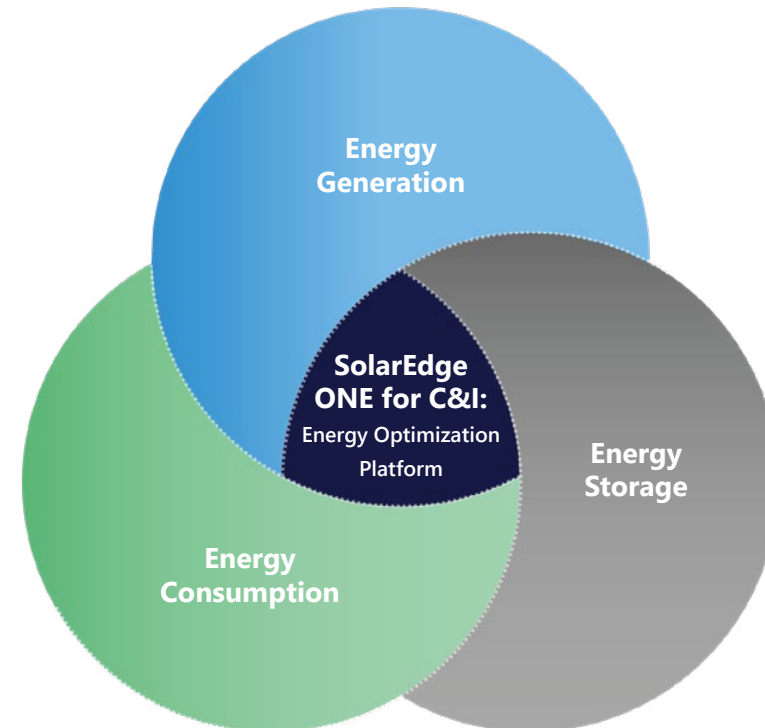
With module-level power optimization and maximum design flexibility, more modules can be installed onsite for increased system capacities that enable shorter project payback periods.

SolarEdge Power Optimizers enable installation of modules in partially shaded areas, strings of uneven lengths, in multiple orientations and different roof facets, or in irregularly shaped fields and sloped terrains.

### Energy optimization across the ecosystem

SolarEdge optimizes energy generation, storage and usage by orchestrating decision-making across all site energy assets, from the fleet to the device and module level, via the SolarEdge ONE for C&I platform.

Able to process vast amounts of data every second, the cloud-based ONE platform incorporates customer definitions and market conditions to ensure each component of the SolarEdge ecosystem is performing at its peak. This helps to save costs, lower operational expenses and meet ESG goals throughout the PV system lifetime.







## Reliable

- / 25-year Power Optimizer warranty and up to 12-year inverter warranties, extendable to 20 years (for selected inverters)
- / Global manufacturing capabilities with tier 1 electronic manufacturing service companies
- / SolarEdge products and components undergo rigorous testing, and have been evaluated in accelerated life chambers
- / Reliability strategy includes proprietary application-specific ICs (ASIC)
- / Able to withstand the harshest of environments: resistant to ammonia, humidity, dust and saline, functional in a wide temperature range of -40° C to +60° C

**“DNV GL views SolarEdge’s approach to product reliability to be thorough and following good engineering practices. These include design for reliability, reliability testing, and analysis of field failure data.”**

Source: DNV GL (a leading global risk assessment company) - PV Optimizers and PV Inverter Technology Review, Nov. 2019



## Streamlined

SolarEdge enhances operational efficiency by integrating all devices across our energy ecosystem, including external sensors, and employing an open API approach for third-party applications.

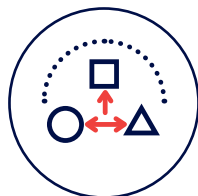
This empowers you to manage the entire energy ecosystem through a single platform and optimize workflows for faster system deployment and reduced resources.

### Streamlined Processes



#### Seamless Integration

With SolarEdge product suite



#### Open API

For third-party applications



#### Controlled by a Single Platform

Manage the entire energy ecosystem from a single device

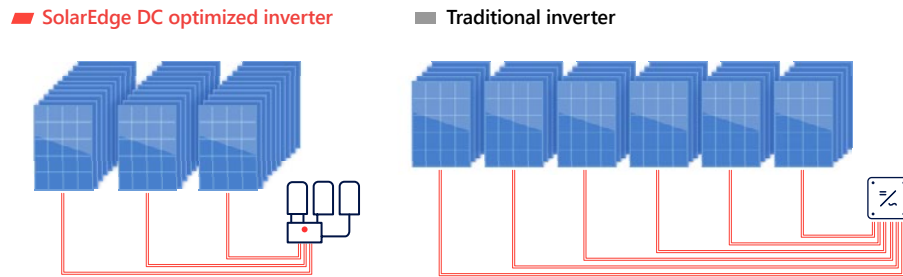
## Achieve Higher Lifetime Value

### Reduced BoS costs

SolarEdge Power Optimizers enable more power per string. This means longer and fewer strings when compared to traditional string inverter systems.

The reduction in wiring, combiner boxes and fuses can result in up to 50% BoS savings.

### SolarEdge solutions require less wiring:



### Greater O&M savings

In addition to installation cost savings, lifetime maintenance costs are also lower with SolarEdge.

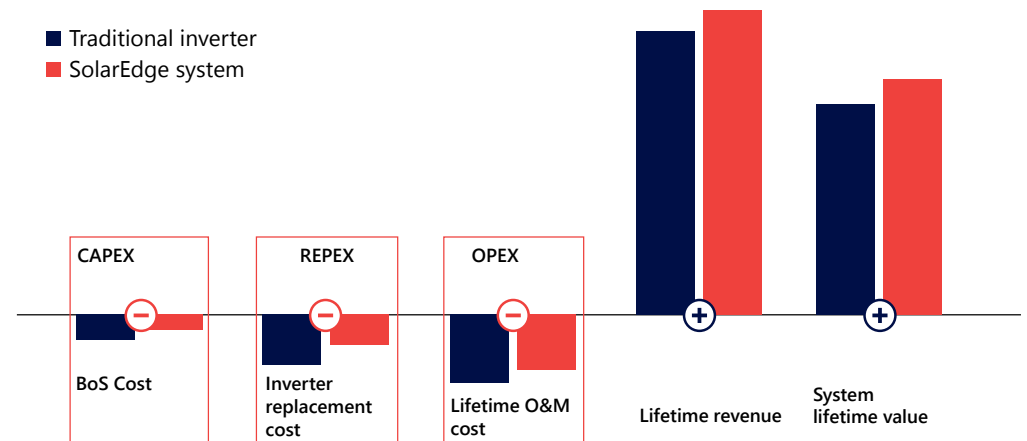
Our module-level monitoring and remote troubleshooting capabilities transforms O&M from a manual, resource-intensive process to an automated, at-a-glance service, ensuring that every plant is performing to the best of its ability at all times.

### Maximized system revenue

The SolarEdge solution offers better Levelized Cost of Energy (LCOE) over the system's lifetime by maximizing yield and reducing costs. It maximizes power generation at the individual module level, which leads to a higher lifetime revenue from PV systems.

When combining greater yield performance with additional savings in Balance of System, Operation & Maintenance and inverter replacement costs, SolarEdge ensures higher value to the customers during the asset lifetime.

### Lifetime PV system cost and revenue:





# Our Rooftop Offering



11.4 MW, Utrecht, Netherlands  
Installed by Xperal



## SolarEdge Offering for Commercial Rooftops

Our diverse portfolio is designed to cater to a wide array of C&I rooftop applications. It encompasses a range of product offerings tailored to meet various needs and goals while ensuring optimal performance for every site.

### Energy Optimization Solutions



SolarEdge ONE for C&I\*



SolarEdge ONE Controller for C&I  
New

### PV Production



SolarEdge Power Optimizers



SolarEdge Inverters

### EV Charging



SolarEdge EV Charger

### Storage

Commercial Storage Systems



CSS-OD  
New\*\*



CSS-ID  
Coming soon



SolarEdge 48V Battery

Examples of commercial rooftop applications:



\* Currently available for selected customers only  
\*\* Gradual release in selected countries only



## PV Production

### Three Phase Inverters with Synergy Technology

Ideal for large-scale solar rooftop projects

Reduce time onsite with installation validation, even before grid connection. Deliver more energy with up to 175% DC oversizing, keep costs low with modular design and provide confidence with advanced, built-in safety features.

66.6kW, 90kW, 100kW for 400V grid | 120kW for 480V grid

- / Maximize system performance with 175% oversizing, DC Single Input and PID rectifier
- / Reduce time onsite and lower costs with innovative pre-commissioning features to mitigate risk of delaying commercial operation
- / Stay safe with built-in SafeDC™ for emergency voltage shutdown, optional rapid shutdown and thermal sensors on DC, AC terminal blocks
- / Install faster with lightweight, modular units and one central manager, for easy installation and maintenance
- / Increase system uptime by pinpointing issues using module-level monitoring

#### Additional Resources



Webpage



Video



Brochure



66.6kW-120kW Synergy Inverter datasheet



Installation guide



## PV Production

### Three Phase Inverters

Ideal for small-medium size solar projects

Drive more power, more safety, and more savings into a broad range of C&I projects including rooftops and carports. Go bigger with up to 175% DC oversizing and ensure peace of mind with industry-leading safety features.

20kW, 25kW, 30kW, 33.3kW for 400V grid | 40kW for 480V grid

- / Deliver more energy by pairing with SolarEdge Power Optimizers
- / Reduce BoS costs by up to 50% with longer strings and flexible design
- / Experience easy installs with compact, lightweight inverter units
- / Maximize system uptime by pinpointing issues with module-level monitoring
- / Instill confidence with integrated arc fault protection and optional rapid shutdown

### Additional Resources



Webpage



20kW-33.3kW for 400V grid datasheet



40kW for 480V grid datasheet



Installation guide



## PV Production

### S-Series Power Optimizers

Our most advanced generation of Power Optimizers yet

By connecting one Power Optimizer to every two modules in a commercial PV array, PV module production is boosted and all types of module mismatch losses are mitigated, all while ensuring the highest levels of system safety.

- / Increase overall system yield and revenue by tracking the maximum power point of each individual PV module
- / Overcome complex layouts by installing modules in multiple orientations and tilts, including support for different module types in the same string
- / Support installations requiring high input current, bi-facial and high-power 700W modules\*, including G12\*
- / Lower your BoS costs with flexible system design that enables fewer, longer strings, strings of different lengths and 50% less cables, fuses and combiner boxes
- / Simplify O&M and ensure continuous uptime with remote troubleshooting, pinpointed fault detection and module-level performance monitoring
- / Maximize protection of people and property with advanced, built-in safety mechanisms such as SafeDC™ and SolarEdge Sense Connect

#### Power Optimizer models

- / S1000/S1200: for rooftop and ground mount
- / S1400: for rooftop and ground mount **New**

\* Supported by the S1400

#### Additional Resources



Webpage



Video



S1000/S1200 datashheet



S1400 datashheet



S1000/S1200 brochure



S1400 brochure



SolarEdge Sense Connect Technical Note





## Commercial Storage Systems

### SolarEdge CSS-OD (New\*)

Help system owners manage fluctuating energy costs with SolarEdge's new outdoor-rated storage solution

The CSS-OD battery cabinet and integrated 50kW inverter are designed for easy installation to reduce time onsite, and includes advanced battery safety technology for maximum system protection. Powered by SolarEdge ONE for C&I, the CSS-OD enables optimized energy production for a wide range of sectors and needs.

- / 102.4kWh rated indoor/outdoor battery with 50kW battery inverter
- / Delivered in a pre-assembled cabinet for minimal on-site work
- / Supports AC-coupled sites with up to two batteries per SolarEdge inverter, and scale up to 1MWh per site
- / Includes advanced battery safety features such as fire detection and double fire suppression mechanisms
- / Powered by the SolarEdge ONE for C&I platform that constantly optimizes site energy production, storage and consumption

\* Gradual release in selected countries only

### Additional Resources



Webpage



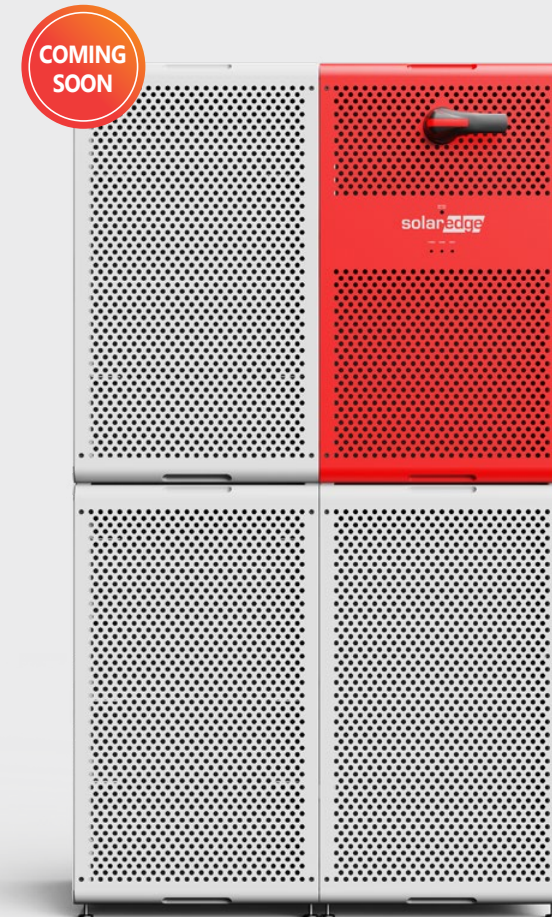
## Commercial Storage Systems

### SolarEdge CSS-ID (Coming Soon)

Allows businesses to unlock their full energy potential with DC-coupled battery storage, ideal for small-medium size businesses

This indoor DC-coupled battery enables system owners to harvest more energy, store it more efficiently, and use more of the energy they generate than any other AC-coupled system. It features a lightweight and modular design that significantly eases the burden on installation teams and provides a cost-effective, scalable advantage compared to complex AC infrastructure.

- / Indoor storage solution rated up to 66kWh per battery unit
- / Supports DC & AC coupled topologies, coupled with SE20-SE33.3K three phase inverters
- / Integrated DC/DC for seamless future augmentation, supporting evolving energy needs
- / Includes advanced safety features such as arc detection, module-level BMS, and reverse polarity hardware protection
- / Lightweight, modular and a compact footprint designed for tight European commercial spaces
- / Easy to transport and quick to assemble (only requiring two people)



## Commercial Storage Systems

### SolarEdge Battery 48V

Store energy to deliver power when it's needed most with this scalable three phase battery, now available for small-scale commercial projects

SolarEdge's 48V battery offers business owners high overall system performance with up to 94.5% round-trip efficiency and a long-term warranty. With dust and water protection, it's suitable for outdoor as well as indoor installations. Supporting new and existing SolarEdge commercial installations, the 48V battery works together with our SolarEdge Home Hub Inverter - Three Phase. A maximum of five batteries can be connected per inverter for a total storage capacity of 23kWh. Each site can deploy up to three inverters for even more scalability, savings, and energy independence.

- / Features comprehensive system efficiency, generating more energy to store and use for on-grid applications
- / Integrates seamlessly with the SolarEdge commercial ecosystems; connects to our existing range of SolarEdge Three Phase & Synergy Technology inverters
- / Scalable solution that enables stacking of multiple battery modules per inverter for increased capacity (up to 23 kWh per inverter, 69kWh per site)
- / Offers a single source for warranty, support and training, to streamline logistics & operations
- / Includes enhanced safety features for battery protection
- / Simple plug and play installation, with automatic configuration via a mobile app

### Additional Resources



Datasheet



Brochure



Design  
Guidelines





## EV Charging

### SolarEdge EV Charger

Utilizes excess PV to charge EVs from the sun for reduced electricity costs

A simple plug and play EV charger that can service all EV models and enables a complete PV/EV smart energy solution.

- / Suitable for single and three phase installations, both indoor and outdoor use
- / Up to 32A/22kW charging power
- / ME/MID compliant
- / OCPP compatible
- / Optional RFID card

---

### Additional Resources



Datasheet



## Energy Optimization Solutions

### SolarEdge ONE for C&I\*

A cloud-based energy optimization platform, designed specifically for C&I energy professionals.

Incorporating extensive customer feedback as well as our own vast expertise in commercial solar, SolarEdge ONE for C&I places an unprecedented amount of system data at your fingertips, enabling deep performance analysis, monitoring and advanced management capabilities across the energy site.

\* Currently available for selected customers only

Operate  
& Maintain

For EPCs and  
O&M teams

Optimize  
& Manage

For energy  
stakeholders

SolarEdge ONE for C&I orchestrates a site's entire energy portfolio, including:

#### PV

SolarEdge inverters and Power Optimizers



#### Storage

SolarEdge CSS-OD and CSS-ID batteries



#### EV Chargers

Multiple charge points using SolarEdge or third-party devices



#### Building Assets

Onsite power consumption assets e.g. IOT energy devices, sensors, etc.





## SolarEdge ONE for C&I Software Scope

SolarEdge ONE for C&I includes a wealth of innovative capabilities designed to meet the varying needs of system stakeholders.

- EPC
- O&M
- Energy Stakeholders

### SolarEdge ONE for C&I

- / Digital Twin
- / Battery Management
- / Advanced Remote Operation
- / Improved Site Analysis & Reports
- / Module-Level Visibility
- / PV Fleet Management
- / SolarEdge EV Charger Management

#### Advanced EV Charger Management

- / Hardware Agnostic
- / Transaction Management
- / Dynamic Load Management

€

#### Load Management

- / Integrates with HVACs, light systems, etc.
- / Visibility and Insights
- / Load Control and Optimization

Coming soon

€

#### Advanced O&M

- / Report Builder
- / Customized Alerts and Dashboards
- / Satellite PR

Coming soon

€

#### Advanced Storage Management

- / Advanced Peak Shaving
- / Market Participation
- / Value Stacking

Coming soon

€

## Energy Optimization Solutions

### SolarEdge ONE Controller for C&I (New)

Enables effective site communication and performance

A local communication gateway that seamlessly integrates the site's energy infrastructure including PV inverters, batteries, meters, and more.

- / Combines with SolarEdge ONE for C&I to optimize the use of locally generated energy for lower electricity costs
- / Acts as a cyber gateway for external communications, designed to protect against unauthorized access
- / Complies with grid regulations to enable safe, reliable electricity generation (PPC)
- / Supports integration with third-party digital sensors and energy meters

### Additional Resources



SolarEdge ONE  
for C&I webpage





# System Comparison for Commercial Rooftops



1.63MW, Venco Campus, Netherlands  
Installed by Alius Energy



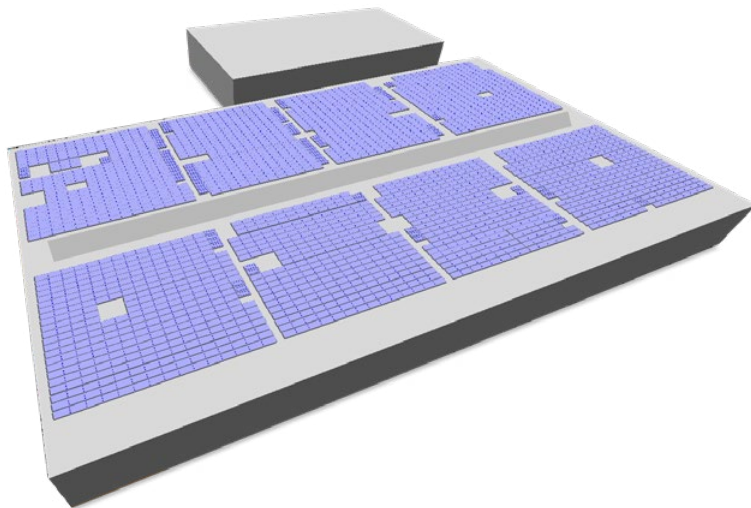
## 1.3MWp Rooftop System Comparison

- / The rooftop system comprises 2,700 x 480Wp modules
- / SolarEdge system design:
  - / 10 x 100kW Synergy Technology inverters
  - / 1,350 x S1400 Power Optimizers (2:1 module to Power Optimizer configuration)
- / Traditional string inverter system design:
  - / 9 x 110kW inverters

### The SolarEdge energy advantage

SolarEdge generates more energy 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 System	SolarEdge System	SolarEdge Advantage
PVsyst Year 1 Yield (MWh)	1,143	1,163	1.7%
PVsyst Year 20 Yield (MWh)	1,024	1,076	5.1%



### Higher BoS cost savings with SolarEdge

	Traditional String Inverter System	SolarEdge System
DC Power (MWp)	1.3	
AC Power (MVA)	1	
480Wp Modules	2,700	
Inverters	9	10
No. of Strings	150	90
Modules per String	18	30
DC Cable 6mm <sup>2</sup> CU (m)	10,190	3,730
AC Cabling (CU) 3 x 70mm <sup>2</sup> (m)	1,110	1,037
MC4 Connectors	300	180
Total BoS Costs (+ labor, in c/W)	16.8	14
Overall BoS Cost Savings (c/W)*	-	2.8

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



# Our Optimized Utility Offering





## SolarEdge Ecosystem for Optimized Utility

The limited availability of land suitable for utility scale PV is forcing developers to consider non-standard, challenging, and uneven terrains intended for diverse purposes.

To maximize PV production and profitability of these sites, SolarEdge has introduced the Optimized Utility solution, powered by the SolarEdge TerraMax™ Inverter and H1300 Power Optimizer. Specifically designed to maximize the potential of a wide range of dual-use PV applications, they address the challenges posed by shading and uneven terrain for ground-mount projects in areas not naturally suited to large-scale solar.

### Energy Optimization Solutions




SolarEdge ONE



SolarEdge ONE Controller


**PV Production**



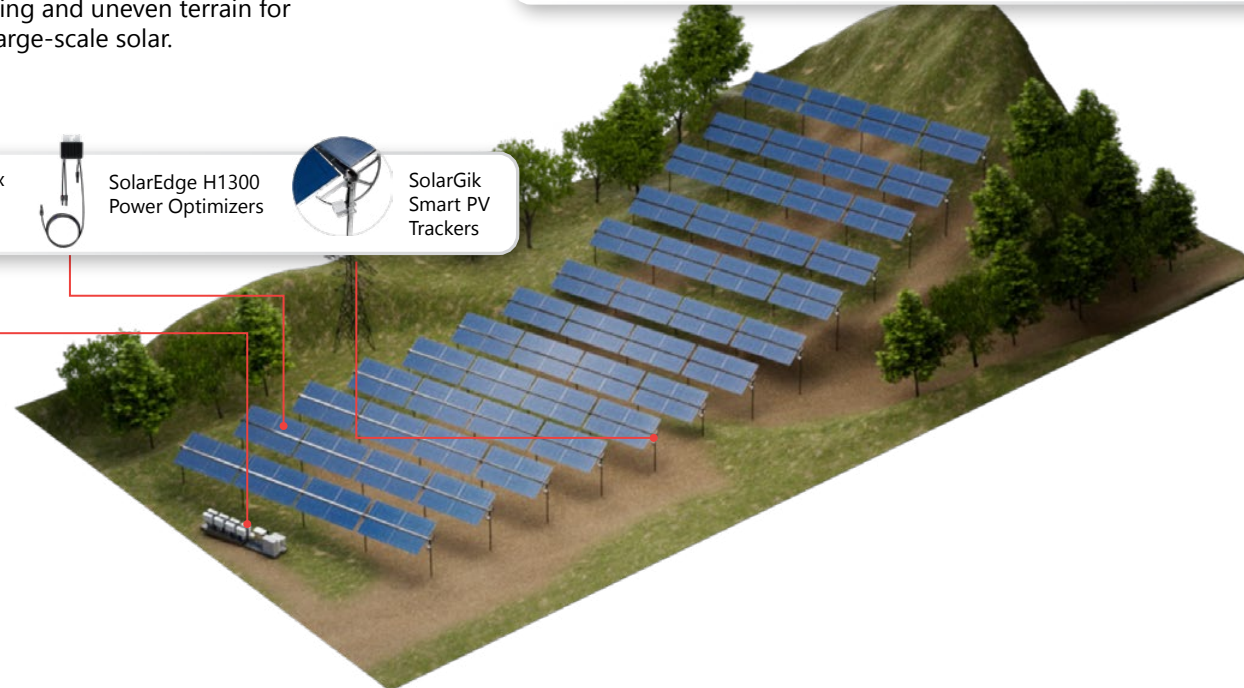
SolarEdge TerraMax Inverters



SolarEdge H1300 Power Optimizers



SolarGik Smart PV Trackers



Examples of Optimized Utility applications:



## Empowering Agri-PV with SolarEdge

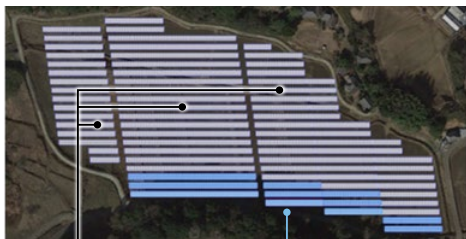
Agri-PV is growing rapidly across Europe, allowing farmers a stable revenue stream, reduction in operating costs and protection against climate change hazards, while opening more opportunities for solar development. Like any solar project, Agri-PV installations come with their own unique set of challenges that must be fully addressed by the selected solar technology to ensure its long-term success.

### Using Module Level Power Electronics (MLPE) - the smart choice for your Agri-PV projects

MLPE technology can mitigate some of the main Agri-PV installation challenges by allowing greater design flexibility, maximizing energy yield, ensuring site safety and increasing O&M efficiencies.

SolarEdge's MLPE-based Power Optimizers enable efficient land-use by allowing installations on partially shaded areas, different module orientations and uneven terrains. By increasing coverage potential, SolarEdge offers more options for optimal layout and design.

SolarEdge's solution also ensures that individual PV modules (including bifacial modules and vertical PV) produce at their maximum energy levels, regardless of shading, soiling/dirt, or module orientation.



Traditional system

More modules with SolarEdge flexible design



Vertical installation powered by SolarEdge

### Aligned with Agri-PV best practices and standards

As the global Agri-PV market grows, so have the number of publications detailing Agri-PV best practices and installation guidelines. They list requirements that highlight the importance policy makers are now giving to the following aspects of Agri-PV installations:

- / Maximization of energy production
- / Real-time system visibility
- / Comprehensive site safety

SolarEdge's Agri-PV solution is clearly aligned with market best practices, ensuring optimized energy and agricultural production while maintaining operational efficiencies. We are also working to ensure our solution consistently adheres to and meets the most up-to-date Agri-PV industry regulations and requirements.

In the [Agrisolar Best Practice Guidelines](#) published by SolarPower Europe, MLPE is recognized as the best approach to mitigating potential Agri-PV site electric shocks and fires.



*"It is recommended to apply Module Level Power Electronics in Agri-PV systems to reduce risk of electric shocks and fires."*



*"... advanced MLPE solutions can detect the potential for arcs in advance and mitigate the risk with pre-emptive action. MLPE should be applied in Agri-PV systems to reduce the risk of electric shocks and fires.."*

### Additional Resources



Brochure



## PV Production

### SolarEdge TerraMax™ Inverter and H1300 Power Optimizer

Specifically designed for ground mount solar projects

SolarEdge's 1500Vdc 330kW ground mount solution is ideal for overcoming complicated challenges often posed by shading and uneven terrain on expansive solar sites.

It reduces Levelized Cost of Energy (LCOE) through higher production and lower BoS costs and also helps streamline installs and maintenance through a unique virtual central topology.

- / Reduce Balance of System (BoS) costs: Flexible design with longer and fewer strings of up to 80 modules
- / Increase system uptime and lower O&M costs: Significant reduction in plant issues and up to 50% fewer truck rolls with continuous, granular module-level monitoring
- / Maximize efficiency with the best of both worlds: Field-distributed module-level power point trackers (MPPTs) and centralized inverters
- / Deliver more energy with up to 200% DC oversizing

#### Additional Resources



[Inverter Webpage](#)



[Power Optimizer Webpage](#)



[Datasheet](#)



[Brochure](#)



## SolarGik Smart PV Trackers

Unlock the full potential of non-traditional terrains with PV trackers and its smart tracking control system that enables greater control over the angle of each module - unlike long solar tables.

- / Lower system and installation costs with 30% lighter trackers (20-25kg per kWp)
- / Short, independently controlled, tracker tables that increases accuracy across uneven terrain
- / Increased energy generation through smart backtracking algorithms using satellite data & weather analytics, and DNI-DHI\* optimization
- / Greater reliability with high MTBF, wind sensing anticipation, intermittency smoothing and plant-specific generation forecasting
- / Lowered O&M costs through "zero maintenance" design, dirt and dew minimization, mechanical clipping for extending panels and inverters' lifetime

Allows best synergy between agricultural and energy production, maximizing optimization based on various parameters:

- / Understand solar and agricultural seasonal patterns and shifts
- / Balance sunlight distribution between crops and panels, based on crop data, weather

\* Direct Normal Irradiance (DNI), Diffused Horizontal Irradiance (DHI)



## Energy Optimization Platform

### SolarEdge ONE

A cloud-based platform designed specifically for O&M professionals.

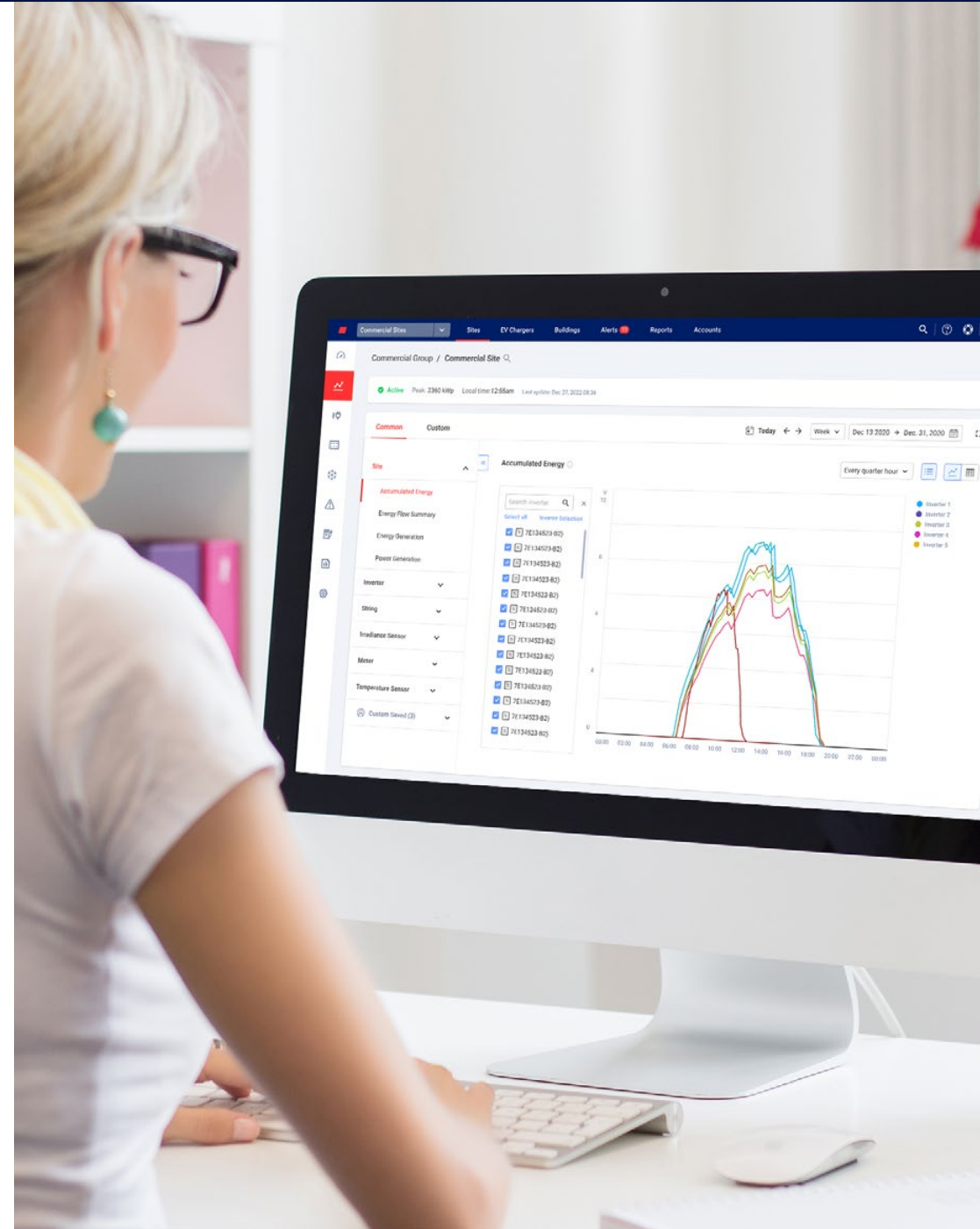
SolarEdge ONE offers advanced tools enabling continuous system operation and comprehensive monitoring for improved on-site performance. It's designed to lower maintenance costs and labor, from the early stage of system installation and throughout the entire project lifetime.

- / Enables remote device operation and configuration, allowing site control from a distance
- / Ensures each part of the system is performing optimally through a series of key indicators and advanced analytics tools
- / Extends the system lifespan through proactive maintenance and quick response to critical issues with a live alerts system and remote troubleshooting
- / Supports integration with third-party energy meters and digital sensors via the optional SolarEdge ONE Controller onsite hardware

### Additional Resources



Webpage





# System Comparison for Optimized Utility





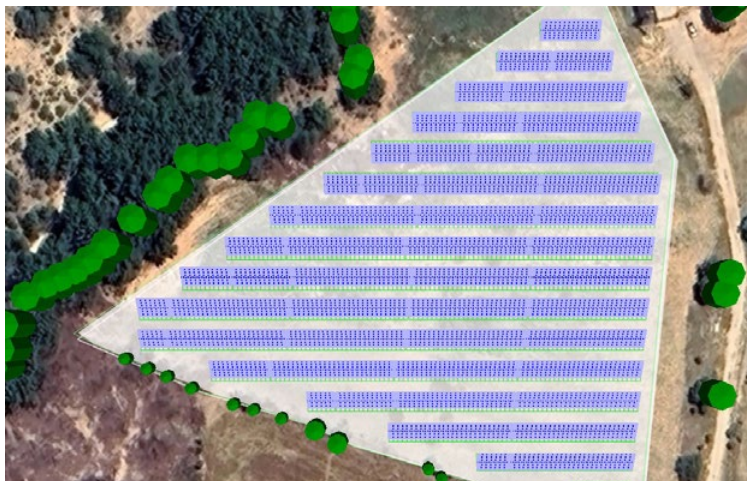
## 1.19MWp Ground Mount System Comparison

- / The ground mount system comprises 2,050 x 580Wp modules
- / SolarEdge system design:
  - / 3 x TerraMax 330kW inverters
  - / 1,025 x H1300 Power Optimizers (2:1 module to Power Optimizer configuration)
- / Traditional string inverter system design:
  - / 3 x 350kW inverters

### The SolarEdge energy advantage

SolarEdge generates more energy 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 System	SolarEdge System	SolarEdge Advantage
PVsyst Year 1 Yield (MWh)	2,034	2,082	<b>2.4%</b>
PVsyst Year 20 Yield (MWh)	1,829	1,942	<b>6.2%</b>



### Higher BoS cost savings with SolarEdge

	Traditional String Inverter System	SolarEdge System
DC Power (MWp)	1.19	
AC Power (MVA)	1.05	0.99
580Wp Modules	2,050	
Inverters	3	
No. of Strings	80	<b>42</b>
Modules per String	25-26	48-50
Solar DC CU Cable 1x6 mm <sup>2</sup> (m)	11,097	5,582
Solar DC AL Cable 1x240 mm <sup>2</sup> (m)	-	220
AC Cable 3x240 mm <sup>2</sup> NA2XY (m)	122	18
MC4 Connectors (1 pair)	160	42
Datalogger	1	-
DC Combiner 320A 1500vdc 14 strings	-	3
AC Switch 3x320A	3	-
Total BoS Costs (+ labor, in c/W)	1.16	0.79
<b>Overall BoS Cost Savings (c/W)*</b>	-	<b>0.37</b>

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

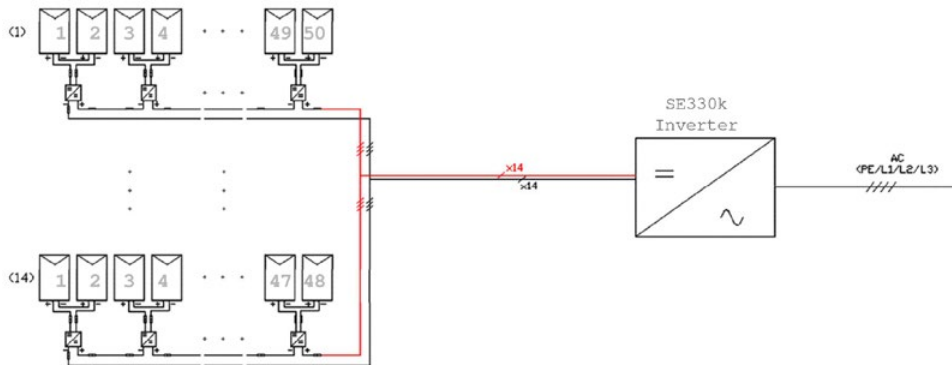
# 1.19MWp Ground Mount System Comparison

## Fewer, longer strings

For this ground mount system, SolarEdge achieves string lengths of 48-50 modules compared to just 25-26 modules with a traditional string inverter system. This translates to nearly half as many strings when installing SolarEdge.

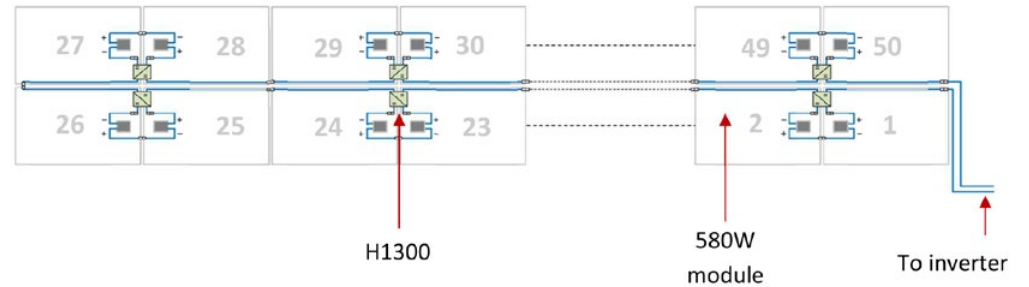
### Single Line Diagram with the TerraMax inverter

Typical inverter schematic

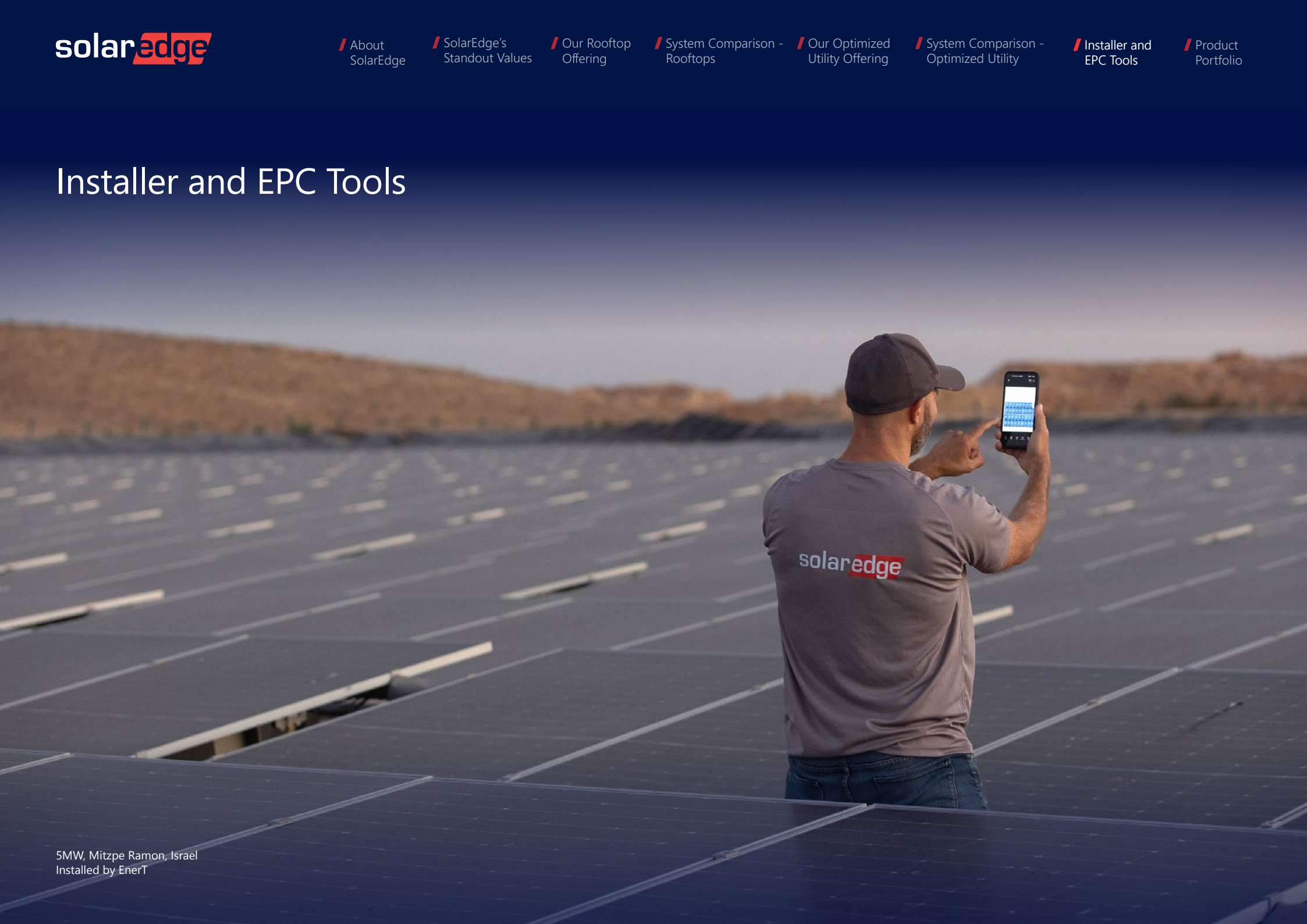


### SolarEdge String Layout Example

Sample 50-module string



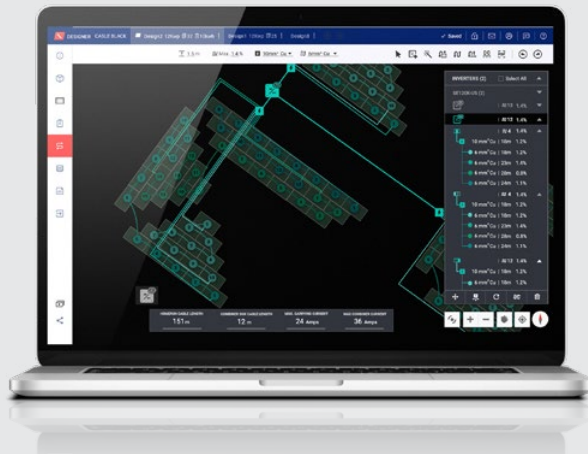
# Installer and EPC Tools



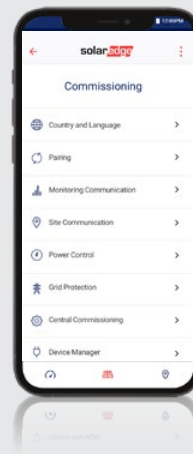
## With you every step of the way

SolarEdge supports you throughout your PV project life cycle. We provide the tools and services to help you grow your business with us, from project design and pre-sale to project execution and O&M.

### Design and Sell: SolarEdge Designer



### Install: / SolarEdge Go / SetApp



### Operate and Maintain: / Monitoring Platform / SolarEdge ONE for C&I\*



\* Currently available for selected customers only

## EDGE Academy

### Empowering solar professionals

SolarEdge has you covered with the EDGE Academy, our award-winning learning services platform designed to transform you into a SolarEdge Pro.

Master the skills of SolarEdge system installation and reduce time onsite with certified training courses that provide the practical knowledge needed to expertly design, install, and maintain SolarEdge systems.







## SolarEdge Designer

SolarEdge Designer is the ultimate software tool for generating exceptional PV designs for maximized energy production. It streamlines PV system design and simulation, seamlessly translating specs into real-life installations and commercial storage.

From site modelling to PV layout, electrical design, production simulation and financial analysis, you can do it all with Designer. It's your all-in-one tool for generating a SolarEdge PV + battery system design and creating reports and proposals for potential customers.

[Designer login](#)[Designer signup](#)

## SolarEdge Go\*

The new on-the-go app for SolarEdge professionals that consolidates solar installation, site & fleet monitoring and management, and remote services for streamlined end-to-end operations.

- / Reduce costly site visits while maximizing operational efficiency with direct system access
- / Enable remote diagnostics and configuration, and manage your support tickets all from your mobile device
- / Import designs, view site data, register new or replaced devices, etc. all on-site without needing to return to the office



\* Current release supports monitoring features only, with additional functionality coming soon

[Webpage](#)

## SetApp

Your go-to mobile app for streamlined inverter commissioning. Activate and configure your installation with quick and simple step-by-step instructions from the palm of your hand.



[Webpage](#)

## Monitoring Platform

Efficiently monitor production and consumption in real-time and remotely identify and manage faults to ensure maximum uptime and energy yield.



- / Manage your fleet from a single platform with customizable smart tools
- / Receive module-level, string-level and system level data
- / Identify sites that require immediate attention with our automated alerts system
- / Perform remote, rapid troubleshooting with access to guided root-cause fault analysis

## SolarEdge ONE for C&I\*

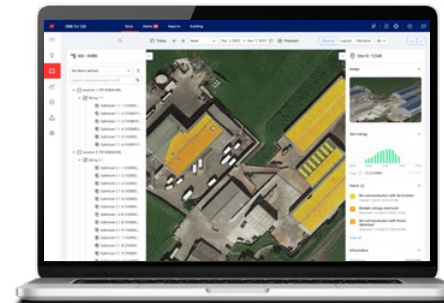
Catering to PV professionals requiring PV monitoring, O&M, storage and EV management capabilities, SolarEdge ONE for C&I core functionalities are accessible by all system users.

It includes new site visibility and maintenance tools via a game-changing interface that places an unprecedented amount of data at your fingertips. Deeper performance analysis than ever before will be possible, across your entire SolarEdge fleet, and as always, down to the module level.

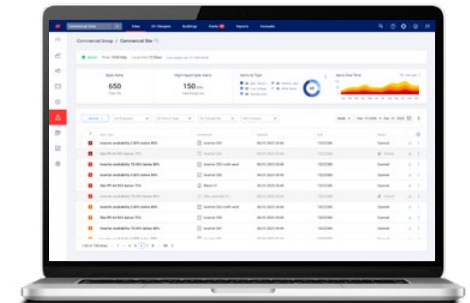
### Advanced features for PV site operation and maintenance include:

- / Digital Twin tool that merges a site's virtual 3D representation with real-time data enabling quick site inspections and detailed performance analysis
- / Remote device configuration and troubleshooting from the comfort of your office for reduced time onsite
- / Extensive pre-configured and customizable charts so you can deep dive into site/device/module-level data
- / Automated alerts pinpointing system issues, ensuring proactive maintenance and fast resolution

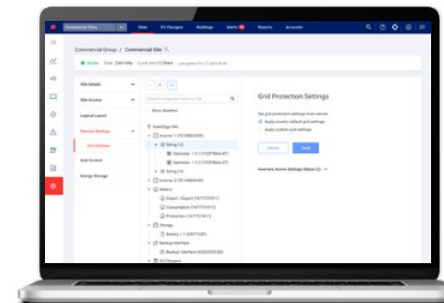
\* Currently available for selected customers only



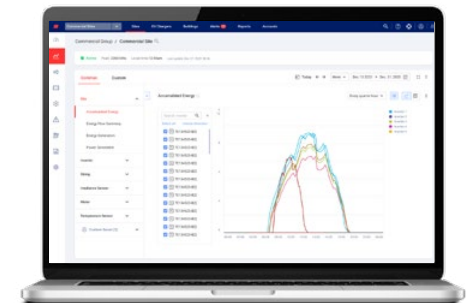
Digital Twin 3D site layout



System alerts



Remote device configuration








System analysis tools








# Product Portfolio





	Part Number	Product Description
 <p><b>Three Phase Inverters;</b> with SetApp inverter configuration, 12-year warranty included</p>	SE16K-RW0T0BNM4	Three Phase Inverter, 16kW
	SE17K-RW0T0BNM4	Three Phase Inverter, 17kW
	For Delta Grid in Norway and Belgium, order using SE*K-BE0T0BNN4 for SE16K & SE17K models	
 <p><b>Three Phase Inverters;</b> with SetApp inverter configuration, including DC Surge Protection (Type II), MC4 connectors. 12-year warranty included</p>	SE20K-RW00IBNM4	Three Phase Inverter, 20kW
	SE25K-RW00IBNM4	Three Phase Inverter, 25kW
	SE30K-RW00IBNM4	Three Phase Inverter, 30kW
	SE33.3K-RW00IBNM4	Three Phase Inverter, 33.3kW
	SE40K-RW08IBNM4	Three Phase Inverter, 40kW for 277/480V grid
For Delta Grid in Norway and Belgium, order using PN: SE*K-BE00IBNM4 for SE25K-SE33.3K models		
 <p><b>Three Phase Inverters;</b> with SetApp inverter configuration, DC Safety Unit including DC Safety Switch, Surge Protection (Type II). 12-year warranty included</p>	SE25K-RW00IBNR4	Three Phase Inverter, 25kW, Glands, DC SPD
	SE30K-RW00IBNR4	Three Phase Inverter, 30kW, Glands, DC SPD
	SE33.3K-RW00IBNR4	Three Phase Inverter, 33.3kW, Glands, DC SPD
	SE25K-RW00IBNJ4	Three Phase Inverter, 25kW, MC4, AC & DC SPD, AC/DC segregation
	SE30K-RW00IBNJ4	Three Phase Inverter, 30kW, MC4, AC & DC SPD, AC/DC segregation
	SE33.3K-RW00IBNJ4	Three Phase Inverter, 33.3kW, MC4, AC & DC SPD, AC/DC segregation
 <p><b>Three Phase Inverters with Synergy Technology - Synergy Manager,</b> with SetApp inverter configuration, MC4 Connectors, DC Surge Protection (Type II). 12-year warranty included</p>	SE66.6K-RW00IBNM4	Synergy Manager, 66.6kW
	SE90K-RW00IBNM4	Synergy Manager, 90kW
	SE100K-RW00IBNM4	Synergy Manager, 100kW
	SE120K-RW08IBNM4	Synergy Manager, 120kW for 277/480V grid
For SE66.6K-SE100K Synergy Managers for Delta Grid in Norway and Belgium, order using PN: SE*K-BE0*IBN*4		
 <p><b>Three Phase Inverters with Synergy Technology - Synergy Manager,</b> with SetApp inverter configuration, MC4 connectors, DC Safety Switch, DC Surge Protection (Type II). 12-year warranty included</p>	SE66.6K-RW00IBNQ4	Synergy Manager, 66.6kW
	SE90K-RW00IBNQ4	Synergy Manager, 90kW
	SE100K-RW00IBNQ4	Synergy Manager, 100kW
	SE120K-RW00IBNQ4	Synergy Manager, 120kW for 277/480V grid
For SE66.6K-SE100K Synergy Managers for Delta Grid in Norway and Belgium, order using PN: SE*K-BE0*IBN*4		

	Part Number	Product Description
 <p><b>Three Phase Inverters with Synergy Technology - Synergy Manager</b>, with SetApp inverter configuration, Single DC Input, DC Surge Protection (Type II). 12-year warranty included</p>	SE66.6K-RW00IBPO4	Synergy Manager, 66.6kW
	SE90K-RW00IBPO4	Synergy Manager, 90kW
	SE100K-RW00IBPO4	Synergy Manager, 100kW
	SE120K-RW08IBPO4	Synergy Manager, 120kW for 277/480V grid
 <p><b>Three Phase Inverters with Synergy Technology - Synergy Unit</b>: 12-year warranty included</p>	<p><b>/ Synergy Managers ≤80kW require 2 x Synergy Units</b>  <b>/ Synergy Managers &gt;80kW require 3 x Synergy Units</b></p>	
	SESUK-RW00INNN4	Synergy Unit
	SESUK-RWR0INNN4	Synergy Unit, with Automatic Rapid Shutdown upon AC grid disconnect
 <p><b>Power Optimizers</b>; 25-year warranty included</p>	S1000-1GM4MBT	S-Series, input up to 1,000Wp, 2 in series, 18A output current, output cable 4.7m (+) and 0.1m (-), input cable 2 x 0.1m (short), Sense Connect enabled on input/output cable connectors
	S1000-1GMXMBT	S-Series, input up to 1,000Wp, 2 in series, 18A output current, output cable 4.7m (+) and 0.1m (-), input cable 2 x 1.3m (long), Sense Connect enabled on output cable connectors only
	S1200-1GMXMBV	S-Series, input up to 1,200Wp, 2 in series, 20A output current, output cables 5.3m (+) and 0.1m (-), input cables 2 x 0.1m (short), Sense Connect enabled on input/output cable connectors
	S1200-1GMXMBV	S-Series, input up to 1,200Wp, 2 in series, 20A output current, output cables 5.3m (+) and 0.1m (-), input cables 2 x 1.6m (long), Sense Connect enabled on output cable connectors only
	S1400-1GM4MBWD	S-Series, input up to 1,400Wp, 2 in series, 24A output current, output cables 5.7m (+) and 0.1m (-), input cables 2 x 0.1m (short), Sense Connect enabled on input/output cable connectors
	S1400-1GMZMBWD	S-Series, input up to 1,400Wp, 2 in series, 24A output current, output cables 5.7m (+) and 0.1m (-), input cables 2 x 1.8m (long), Sense Connect enabled on output cable connectors only
 <p><b>Communication Products</b></p>	SE1000-CCG-G-S1	Commercial Gateway
	SE1000-CCG-F-S1	Firefighter Gateway
	CELL-B-R0-GLO-V-S0	Cellular Modem, LTE, no data plan
	SE-ANT-ZB-WIFI-03	Wi-Fi Antenna for Synergy Manager
 <p><b>Surge Protection Kits</b></p>	SE-RS485-SPD3-B-K4	RS485 Surge Protection Kit for SE15K-SE40K and SE66.6K-120K Synergy Manager and Synergy Units
	SE-AC-SPD-I	AC Surge Protection upgrade kit, SE25-40K-*IBN*4
	SE-AC-SPD-SM	AC SPD upgrade kit for Synergy Manager
	SE-DC-SPD-SM2SU	DC SPD field kit for Synergy Manager with 2 Synergy Units
	SE-DC-SPD-SM3SU	DC SPD field kit for Synergy Manager with 3 Synergy Units
	FLD-3PH-I-DC-SPD	DC SPD field kit for Three Phase Inverters SE20-40K-*IBN*4
	FLD-3PH-I-AC-SPD	AC SPD field kit for Three Phase Inverters SE20-40K-*IBN*4

**Part Number**
**Product Description**

**Environmental Sensors**

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: <http://www.imt-solar.com>


**Metering Solutions; with 5-year warranty for all Energy Meter models**

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 the UK)
SE-RGMTR-3D-208V-A	3ph 3-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
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.
SE-CTB-4X4.5-3000	Bus-Bar CT, 4.0" x 4.5", 3000A, 1.5% acc.
SE1000-S0IF01	S0 meter adapter cable


**Professional Services**

SE2000-PFSV-MSDC-4BPC	Power Plant 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, Power Plant Controller
SEFP-PFSV-10Y	Site Data FTP: Web FTP site for monitoring data
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.



	Part Number	Product Description
<b>Inverter Warranty Extensions</b> Purchased within 24 months of shipment date, up to 20 years	WE-3H-20	20 years, Three Phase Inverter $\geq 15\text{kW}$ , $<25\text{kW}$
	WE-3SH-20	20 years, Three Phase Inverter 20kW-40kW
For Three Phase Inverters $\geq 25\text{kW}$ with DC Safety Unit, purchased within 24 months from shipment date	WE-3SH-20DCD	20 years, Three Phase Inverter 20kW-40kW
For Three Phase Inverters with Synergy Technology, purchased within 24 months from shipment date	WE-3MH-20	20 years, Three Phase Inverter with Synergy Technology 50kW-66.6kW
	WE-3UH-20	20 years, Three Phase Inverter with Synergy Technology 82.8kW-100kW
For Three Phase Inverters with Synergy Technology including Synergy Manager + Units, purchased within 24 months from shipment date	WE-3LSM-20	20 years, Three Phase Inverter with Synergy Technology $\leq 80\text{kW}$
	WE-3HSM-20	20 years, Three Phase Inverter with Synergy Technology $> 80\text{kW}$

For full ordering information,  
[contact your local SolarEdge distributor](#)