SolarEdge Residential Offering for Installers
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SolarEdge Fact Sheet

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 outreach
- 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

Shipping since 2010
- Over 1.5 million inverters shipped worldwide
- SolarEdge’s monitoring platform continuously tracks over a 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 or 25 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 Complete SolarEdge Residential Solution

**Smart energy**
- Utilize excess solar energy to power heat pumps, to heat water, or to power lights and other home appliances
- Automatic, on-the-go control of smart devices via SolarEdge’s monitoring platform

**Inverter**
- The brains of the PV system
- Efficiently converts DC energy to AC electricity for use in the home
- Manages system production, battery power, EV charging, and smart energy

**StorEdge®**
- Stores PV energy in batteries for use when needed
- Provides backup power for the home during grid outages

**Monitoring platform**
- View real-time system and module performance, and receive notifications on mobile devices
- Visibility of energy production and consumption, battery charge level, and EV charge status
- Two dedicated monitoring apps, for installers and homeowners

**Smart modules**
- Premium SolarEdge smart modules, each integrated with a power optimizer for greater energy harvest
- Elegant module design with a black frame
- Excellent reliability, with superior quality control guaranteed by SolarEdge

**Power optimizer**
- Integrated with each SolarEdge smart module on the roof, for increased module output, enhanced system safety, and real-time module information
- Can also be installed on third-party modules, converting them into smart modules
More Energy from Each Module

More power equals more revenue and more savings on electricity bills. In traditional string inverter systems, one underperforming module reduces the performance of an entire string.

With SolarEdge, each module produces at its maximum ability at all times, ensuring greater energy yield from the entire system.

- Generates maximum power from each module
- Modules are monitored individually. Up to 25% more energy is produced by the PV system
- One weak module reduces the performance of all modules in the string or is bypassed
- Power losses occur due to module mismatch

Homeowner value: more energy

More power = more revenue and more savings on your electricity bill. One underperforming solar module connected to a traditional string inverter negatively impacts the performance of an entire string. SolarEdge minimises this issue by allowing each module to perform to the best of its ability at all times.

Power losses can result from:

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

Soiling, shading and leaves
Module soiling, from dirt or bird droppings, contribute to mismatch between modules and strings. While there may be no obstructions during site design, throughout a residential 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, causing aging mismatch, which increases over time.

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 minimises 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 a safe level in either of these cases:

- During installation, when string is disconnected from the inverter, or the inverter is turned off
- During maintenance or emergency, when the inverter or AC connection is shut down
- When the thermal sensors of the power optimizers 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.

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.

Homeowner value: superior safety

For decades now, PV systems have proven to pose minimal safety risks. SolarEdge further improves PV safety with its SafeDC™ feature, designed to reduce your PV system’s high voltage to a safe level whenever the grid is shut off, protecting solar professionals, installers, firefighters and your home.
Design Flexibility

Get more with greater design flexibility
Our design flexibility allows you to utilize available roof space better. A wide variety of string lengths is possible with no requirement for matching string lengths. Longer strings lower BoS costs. The size and layout of an array is no longer defined by electrical constraints. Shaded modules do not bring down the entire string performance, and modules power rating, bin, and type can be mixed in multiple orientations or tilts, in the same string.
SolarEdge provides the opportunity to sell more modules and make each installation more profitable.

Peace of Mind

Module-level monitoring
SolarEdge provides real-time remote monitoring at the module, string, and system level, allowing for greater visibility of system performance.
The SolarEdge monitoring platform provides comprehensive analytics tracking and reports of energy yield, system uptime, performance ratio, and financial performance. Pinpointed and automatic alerts for immediate fault detection, accurate maintenance, and rapid response help minimize and shorten onsite visits.
Monitoring can be customized for viewing at system-level or module-level.
Numerous communication options exist for connecting SolarEdge inverters to the monitoring platform, via hardwired Ethernet, Wi-Fi, ZigBee® wireless, or cellular connections. Access to the monitoring platform is easily available from your computer or mobile device, anytime, anywhere.

Protecting the homeowner’s investment
As part of residential PV design, it is important to account for future costs that can impact the return on investment of a homeowner’s PV system. The SolarEdge DC optimized inverter solution effectively minimises these potential costs.
- Replacement: SolarEdge allows modules of different power classes and brands in the same string. Any module available in the market could fit.
- Expansion: New power optimizers and modules can be utilized in the same string with older models.
SolarEdge products are built for long-term performance, with industry-leading warranties of 25 years for smart module performance and 15 years for the smart module, 25 years for power optimizers, 12 years for inverters, and free monitoring for 25 years. Affordable extended inverter warranties of up to 25 years are also available, with low-cost out-of-warranty inverter replacement at ~40% less than traditional inverters.

Homeowner value: design flexibility
SolarEdge combines optimal rooftop usage with an aesthetic design, for more power and more savings. Mix and match module types to easily expand your solar system later.

Homeowner value: peace of mind
With real-time monitoring of system performance and long product warranties, SolarEdge assists you in protecting your investment and provides you with peace of mind.
SolarEdge Smart Modules

SolarEdge solar modules are integrated with power optimizers, enabling faster residential installations, simplified logistics, and easier servicing. It combines SolarEdge’s leading DC optimization technology with guaranteed module performance for greater module output, literally straight out of the box.

Increased performance
Integrated power optimizers to harvest more power from each module

Advanced safety
Maximum protection with built-in SafeDC™

Excellent reliability
Superior quality control guaranteed by SolarEdge

Less time on-site
Faster installations, quicker site mapping to the monitoring platform, and easier maintenance

Long-term warranty
15-year module warranty and 25-year performance warranty

Complete solution
Full system offering, warranty, and service, all from SolarEdge

Faster, Easier PV Installations than Before

We know PV
As a global leader in solar technology with Tier 1 manufacturing capabilities, SolarEdge’s solar module expertise comes from selling over 45 million power optimizers, compatible with hundreds of different module types installed on every kind of roof, in 133 countries.

The smart module is manufactured on a full automatic production line with 100% EL triple inspection, carrying the SolarEdge seal of approval as well as independent verification by PI Berlin, further guaranteeing high quality and reliability.

More value for solar installers
Complete your SolarEdge portfolio with 300W-310W smart modules for easier system design and other unique benefits
- Full offering and complete service from SolarEdge
- Inverters and smart modules with integrated power optimizers, all from one solution provider
- Streamlined logistics with fewer parts to order, easier servicing, and a single product warranty
- Integrated power optimizers for:
  - Faster, cost-saving installations, less time on-site
  - Easier troubleshooting and maintenance
  - Quicker site mapping with only one serial number easily scanned from the front of the module
  - All the proven value of SolarEdge’s module-level optimization and visibility, advanced safety, and design flexibility

More value for homeowners
SolarEdge smart modules enhance an already powerful residential offering for homeowners
- Single solar provider, from roof to grid
- Premium PV modules to boost performance & aesthetics
- Improved curb appeal with elegant black-framed module design
- Peace of mind thanks to excellent product and performance warranty, with proven module reliability
- Mitigation of all types of module power losses
- Optimized energy output of each individual module
- Automatic module-level voltage shutdown protecting people & property
- Easy upgrades to battery storage and smart energy solutions, with a truly future-proofed system
Single Phase Inverters with HD-Wave Technology

A new era for inverter technology
Representing one of the most significant leaps in solar technology in the past 20 years, SolarEdge’s HD-Wave technology is a novel power conversion topology that significantly decreases inverter size and weight, while also achieving record 99% weighted efficiency.
Activating and configuring the inverter is now done directly through your smartphone using the SetApp mobile application.

Achieving more with less
By employing distributed switching and advanced digital processing to synthesise a clean, high-definition sine wave, inverters with HD-Wave technology have <1/2 the heat dissipation, 16x less magnetics, and 2.5x less cooling components than previous SolarEdge inverters, which are already among the smallest on the market.

Product features:
- Multiple sizes with 2.2kW to 6kW inverter range
- More energy from a record 99% weighted efficiency
- More modules on the rooftop with up to 153% DC/AC oversizing
- Easy installation due to small size and light weight
- Improved reliability with less heat
- Superior safety with SafeDC and arc detection
- High visibility with built-in module-level monitoring
- Quick and easy inverter commissioning directly from your smartphone using the SolarEdge SetApp
- Backward compatibility with existing SolarEdge systems

Three Phase Inverters

Making three phase installations easier
SolarEdge’s next generation of low power, three phase inverters for the residential market features multiple design improvements, making it smaller, lighter and easier to install than previous models. Suitable for both outdoor and indoor installations, these inverters run quieter than before following an upgrade to the internal fan and removal of the external fan.
Activating and configuring the inverter is now done directly through your smartphone using the SetApp mobile application.

Product features:
- Multiple inverter sizes including 4kW, 5kW, 7kW, 8kW, 9kW, and 10kW
- Easy installation due to small size and light weight
- Quiet operation designed for residential environments
- Superior safety with SafeDC and arc detection
- High visibility with built-in module-level monitoring
- IP65-rated, suitable for indoor or outdoor installations
- Quick and easy inverter commissioning directly from your smartphone using the SolarEdge SetApp
- Internet connection via Ethernet or wireless communications (via Wi-Fi, ZigBee, or cellular connectivity)
EV Charging Single Phase Inverter

The world’s first EV charging inverter

Increase your revenue with the world’s first EV charging PV inverter. It offers users the ability to charge electric vehicles up to 2.5 times faster than a standard EV charger through an innovative solar boost mode that utilizes grid and PV charging simultaneously.

Your customers will save money, time, and hassle compared to purchasing and installing an EV charger and PV inverter separately. Whether your customer owns an EV now or just wants to be EV-ready, drive your business into the future with SolarEdge.

Key benefits

- Combines sun and grid power for charging up to 2.5 times faster than standard EV chargers
- Reduces workload and costs of installing a standalone EV charger and a PV inverter
- An EV-ready solution, future-proofed for new EV purchase or replacement, and compatible with multiple EV connectors
- Maximizes self-consumption by using excess PV for EV charging
- Fully integrated with the monitoring platform and easy inverter commissioning using the SetApp mobile app
- Built-in meter enables separate tracking of EV power usage for visibility and control
- 12-year warranty (1), extendable to 20 or 25 years
- Demand-response ready
- Full visibility and control

Full visibility and control

The SolarEdge EV charging inverter supports full network connectivity and integrates seamlessly with the monitoring platform. Homeowners can track their charging status, control vehicle charging, and set charging schedules.

Feature highlights

- Smart-scheduling for use with Time of Use (TOU) rates — charge from the grid during off peak hours
- Track PV, EV, and grid consumption for visibility and control of household energy usage
- Remote operation via mobile app — turn charging on and off directly from your smartphone
- View charging duration, charge energy, and percent charge from PV

EV charging comparison

<table>
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<th>Standard EV charger</th>
<th>SolarEdge EV charger mode 3 with solar boost mode</th>
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<tr>
<td></td>
<td>(2.7 kW 12A@230Vac)</td>
<td>Charging speed depends on PV production (Maximum 7.4kW 32A@230Vac)</td>
</tr>
<tr>
<td>Added kilometers per 1 hour of charging (2)</td>
<td>8 to 15 kilometers</td>
<td>35 to 40 kilometers</td>
</tr>
<tr>
<td>Charge time for daily commute (3)</td>
<td>4 to 8 hours</td>
<td>1 to 1.5 hours</td>
</tr>
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</table>

(1) Cable and connector are not included
(2) Check your car manual for maximum charge rate
(3) Assuming 1 km/kWh and with a EU household average driving distance of 50 km per day
**Single Phase Inverters with Compact Technology**

**Affordable, green electricity for small residential rooftops**

SolarEdge has developed a residential DC-optimized inverter solution, ideally suited for homes with limited roof space, social housing projects, or for meeting minimum sustainability requirements.

The single phase inverter with compact technology is packed with the standard SolarEdge benefits such as greater energy harvest from each module, long-term product warranties, advanced safety features, and free module-level monitoring. It is easily installed on either existing rooftops or new builds, and delivers clean energy, which is affordable, efficient, and safe.

**Specifically designed for rooftop systems of 4-8 modules**
- Power optimizer and inverter designed to work exclusively with each other
- Inverter is available in three sizes: 1000VA, 1500VA, and 2000VA
- One or two 60-cell PV modules, or one 72/96-cell module, can be connected to each input
- Extremely compact, lightweight, and easy to install
- Quick and easy inverter commissioning directly from your smartphone using the SolarEdge SetApp
- IP65-rated inverter — suitable for indoor or outdoor installation
- Flexible communication options for maximum cost effectiveness, depending on project requirements
- Real-time monitoring of individual or multiple systems

**The New Standard in Inverter Commissioning**

Inverter commissioning has never been this easy. Activating and configuring your inverter is now done directly through your smartphone using the SetApp mobile application. All the information you need is in the palm of your hand — the display screen is no longer needed in the new range of SolarEdge inverters!

Download the SetApp mobile app for Android or iOS smartphones, and take inverter commissioning to the next level.

**Faster inverter activation with setapp**

SetApp makes commissioning your installation quick and simple with step-by-step instructions and easy to read menus.

**Connect**
- Scan the inverter barcode to create a fully secure local Wi-Fi connection between your smartphone and the inverter

**Update & activate**
- Always have the latest firmware version
- Saves you time on obtaining the latest version and updating the inverter
- Inverter is automatically activated

**Configure**
- Configure parameters such as country and grid, language, communication options
- Step-by-step instructions
- Simultaneous configuration of up to 31 additional devices from the master inverter

LEDs on the bottom of the inverter give you a visual status indication - signaling whether the system is producing energy, whether the inverter is communicating with the monitoring platform, and indicating any system errors.

Read more about LED functionality at: solared.ge/leds
Full Monitoring of PV and StorEdge Systems

The SolarEdge monitoring platform provides insight into household PV production and consumption, displaying the power flow between the PV array, battery, grid and house loads as well as tracking real-time system data.

Monitor Home Consumption with a SolarEdge Energy Meter

The SolarEdge energy meter provides full insight into the electricity produced by your customer’s PV system and the household consumption 24 hours a day, displayed in the SolarEdge monitoring mobile app in an easy to understand format.

Full transparency of energy consumption
By understanding how and when homeowners generate and use power, they can make more use of the energy produced by their PV system by diverting excess solar energy to other electrical appliances around the home.

Get real-time insight into home energy production and usage
Once the SolarEdge energy meter is installed, the monitoring platform can be used to view homeowners energy production and consumption levels. The energy meter also lets you add additional energy saving products to your customer’s system, either now or in the future. To maximize self-consumption, add battery storage or SolarEdge smart energy products.
The StorEdge Solution: Enabling Energy Independence

Combining SolarEdge’s breakthrough PV inverter technology with leading battery storage systems, the StorEdge solution helps homeowners reduce their electricity bills while maximizing energy independence from the grid.

StorEdge is based on a single SolarEdge DC optimized inverter that manages and monitors PV production, consumption and storage. StorEdge is compatible with high voltage LG Chem RESU batteries as well as 48V batteries supplied by multiple battery vendors.

Optimizing energy consumption

The StorEdge solution can be used to increase energy independence for homeowners, by utilizing a battery to store power and supply power as needed. To optimize self-consumption, the battery is automatically charged and discharged to meet consumption needs and reduce the amount of power purchased from the grid.

Keeping the lights on when the grid goes down

In addition to optimizing self-consumption, StorEdge can also automatically provide backup power to pre-selected loads when the household suffers from grid interruptions. A combination of PV and battery is used to power important loads such as the refrigerator, TV, lights and AC outlets to keep things running smoothly, day or night.

Providing backup power day or night

With StorEdge, the excess energy produced during peak sunlight hours is stored to the battery and used later so no energy is ever wasted.
Maximizing the Homeowner’s Solar Investment with StorEdge

The StorEdge system is full of benefits for the installer and homeowner alike.

More energy
- Power optimizers increase rooftop energy harvest
- PV power is stored directly in the battery; no additional conversions from AC to DC and back to AC
- DC coupled battery solution allows high system efficiency

Simple design and installation
- A single inverter for PV, storage and backup power
- Can be installed in either indoor or outdoor locations
- No special wires are required > utilizes the same PV cables
- Supports multiple inverter/battery installations

Full visibility and easy maintenance
- Monitor the battery status, PV production, and self-consumption data
- Smarter energy consumption to reduce electricity bills
- Monitor battery energy levels and remaining hours of backup power
- Remote diagnostics
- Remote firmware upgrades to both inverter and battery

Enhanced safety
- PV array and battery voltage reduced to a safe voltage automatically upon AC shut down when not in backup mode
- Complies with VDE 2100-712 and IEC 60947
Basic StorEdge DC-Coupled Applications

Optimizing self-consumption

1. StorEdge single phase inverter with HD-Wave technology
   A single inverter unit managing PV production, battery storage, and smart energy devices

2. Energy meter with Modbus connection and current transformers
   For measuring electricity import and export
   The energy meter is required for self-consumption management

3. Battery pack
   Compatible with DC coupled, high-voltage and high-efficiency batteries from LG Chem

Optimizing self-consumption + backup power*

1. StorEdge single phase inverter
   The inverter manages battery, system energy and backup power, in addition to its functionality as a PV inverter

2. Energy meter with Modbus connection and current transformers
   For measuring electricity import and export
   The energy meter is not required for a backup only solution

3. Battery pack
   Compatible with DC coupled, high-voltage and high-efficiency batteries from LG Chem

* Backup capability is only available in certain countries and might need an external disconnection unit. Check with your local SolarEdge sales person.
Advanced StorEdge Configurations

### Three phase installations

A StorEdge three phase inverter connects directly to one or more 48V batteries from compatible battery vendors, and manages PV, consumption, and battery power.

### Retrofitting existing SolarEdge installations

To upgrade existing SolarEdge systems with StorEdge capabilities, the StorEdge interface is installed in order to connect the battery and SolarEdge energy meter to the existing single phase inverter.

### Connection to a non-SolarEdge inverter

To upgrade existing single or three phase non-SolarEdge PV installations, the StorEdge system, including an additional single phase inverter, connects to the non-SolarEdge inverter’s AC output (AC-coupled). The StorEdge single phase HD-Wave inverter charges the battery using the PV power produced by the non-SolarEdge inverter.
As homeowners’ energy demands and consumption patterns continue to evolve, make sure you equip them with smart energy systems that do much more than just manage their PV production. Designed to automatically use the PV system’s excess power to increase solar energy usage, SolarEdge’s smart energy products help the homeowner achieve lower electricity bills, increased energy independence, and greater convenience. The smart energy suite combines PV production, storage management, and home automation, all under the control of a single SolarEdge inverter.

**Smart energy applications**
- **Smart energy hot water**: Wireless controller automatically diverting excess PV energy to the hot water boiler, providing hot water and highly cost-effective energy storage
- **Smart energy switch & smart energy socket**: Wireless switch for controlling electrical loads, such as pool pumps, fans, lighting and other home appliances
- **Smart energy relay**: Wireless relay for controlling high loads using an external control interface, such as smart grid-ready supported heat pumps

**Control in the palm of your hand**
Use SolarEdge smart switches to control household appliances remotely and on-the-go, anytime, anywhere, via the SolarEdge monitoring mobile app.

**The benefits of using smart energy products**
- **It’s automated**: A smart, self-learning system featuring efficient use of excess solar energy to power appliances
- **It’s modular**: Homeowners have the flexibility to choose from several solutions and install a system best fitting their present and future energy needs, for maximized self-consumption
- **It’s user friendly**: Simple and intuitive user interface to monitor system performance and remotely control devices

**The added value of the smart energy hot water**
A typical UK home with a 4kW PV system, before and after installation of the smart energy hot water device*

* Reduces electricity (or gas) consumption for water heating
Export Limitation Solution

Reduce electricity bills, increase your self-consumption

Grid electricity prices are constantly on the rise. This situation motivates the installation of large PV systems that allow owners to minimise consumption from the grid during the day. However, in some countries local regulations limit the amount of PV power that can be exported to the grid or allow no export whatsoever, while allowing the use of PV power for self-consumption. Therefore, without an energy management system, PV systems cannot be installed (if no export is permitted) or are limited in size.

SolarEdge offers an export limitation option, integrated in the SolarEdge inverter firmware, which dynamically adjusts PV power production. This allows you to use more energy for self-consumption when the loads are high, while maintaining the export limit also when the loads are low.

SolarEdge export limitation
- Export limitation is integrated into the inverter firmware - install only an energy meter
- Fast Response Time - ensuring that even with rapid changes in load consumption and PV production the export power does not exceed the limit
- Failsafe Operation - the operation is designed to guarantee that the exported power will never exceed the preconfigured limit under any fault

SolarEdge inverter as energy manager
- Export limit is configured via the inverter user interface
- In a multi-inverter system, one inverter will serve as the energy manager
- Installed SolarEdge inverters can be firmware upgraded with the export limitation option

Meter support
- The inverter can read a meter installed either at the grid connection point or at the load consumption point
- Two types of meters may be used:
  - An RS485 meter, available from SolarEdge; the meter connects to the RS485 terminal block of the SolarEdge inverter
  - A meter with an S0 interface and an S0 meter adapter cable available from SolarEdge
- The inverter maintains the output power limit with accuracy equal to that of the meter

Export limitation operation example
The following example illustrates the behavior of a 6kW PV system, with an export power limit of 0W - no export to the grid.

<table>
<thead>
<tr>
<th>Time</th>
<th>Potential PV power</th>
<th>Power production</th>
<th>Load</th>
<th>Export power*</th>
</tr>
</thead>
<tbody>
<tr>
<td>6AM</td>
<td>No PV production</td>
<td>0kW</td>
<td>3kW</td>
<td>-3kW</td>
</tr>
<tr>
<td>8AM</td>
<td>PV production lower than loads</td>
<td>1kW</td>
<td>4.5kW</td>
<td>-3.5kW</td>
</tr>
<tr>
<td>9AM</td>
<td>PV production equal to load</td>
<td>3.5kW</td>
<td>3.5kW</td>
<td>0kW</td>
</tr>
<tr>
<td>12PM</td>
<td>PV potential greater than load</td>
<td>6kW</td>
<td>4kW</td>
<td>0kW</td>
</tr>
</tbody>
</table>

* Minus sign indicates power is purchased from the grid

The overall behaviour of the example system throughout the day can be seen in the following chart:
Faster, Easier PV System Design

The Designer is a free web-based tool that helps you lower your PV design costs and close more deals by making more compelling customer proposals. Use the online tool to plan, build and validate your SolarEdge systems from inception to installation.

Access the Designer platform via the Login menu on the SolarEdge homepage.

Save time and money

- Supports satellite or custom site imagery – no need for a site visit prior to initial design
- Free for use - no license or subscription fees required
- Maximize roof utilization and enjoy SolarEdge design flexibility advantages with instant validation
- Eliminate costly installation mistakes by creating visual wiring diagrams of your PV system

Close more deals

- Impress your customers with a visually attractive 3D simulation of their roof
- Make quick, on-the-fly design modifications based on homeowner feedback
- Offer more compelling customer proposals with Designer’s comprehensive reports and accurate energy simulations

Enjoy a modern, intuitive platform

- Clean, interactive, graphical interface
- Web-based access from any Mac or PC
- Multi-user access to your Designer account for easy project collaboration
- Automatic upgrades — no need to install new versions or download datasets

Working with SolarEdge

SolarEdge offers its PV installers valuable services to help make your experience positive and efficient.

Support

Comprehensive pre and post-sale technical services include technical documentation, personal project-based technical consulting, and more. Do not hesitate to contact the SolarEdge support team with for technical or service support. Simply open a case via the Support tab of your SolarEdge monitoring dashboard or the SolarEdge website Support page.

Training

Expand your knowledge of SolarEdge products and solutions. The SolarEdge website Training page links directly to webinars and E-learning courses. There you’ll also find registration links to SolarEdge training seminars taking place in a location near you.

Alliance program

Welcome to the Alliance program where you can accumulate 15 points for every kW of SolarEdge systems that you register on the monitoring platform. Redeem your points for promotional materials or gifts, perfect for company employees or family members. Redeem points by accessing your Alliance account via the SolarEdge website.

Marketing tools

Access marketing collateral to help you sell SolarEdge solutions: visit the SolarEdge website Downloads Center to access product catalogs, brochures, case studies, datasheets and more.

Contact your local SolarEdge sales or marketing person for more information about marketing and support services.
Residential Product Offering

Complete residential PV solutions

Inverters
- Single phase inverters with HD-Wave technology: 2.2kW-6kW
- Three phase inverters: 3kW-10kW

Power optimizers
- Module-level optimization
- P300-P505

EV charging single phase inverters
- Expand homeowner’s PV usage with the world’s first EV charging inverter

StorEdge®
- Maximizes self-consumption and provides backup power when grid is down

Single phase inverters with compact technology
- For small rooftop systems of 4-8 modules

Smart Modules
- 300W-310W modules, with integrated P370 power optimizer

Monitoring platform
- Free, real-time system visibility at the module level

Smart energy
- Utilizes excess PV for increased self-consumption and lower electricity bills

Wireless communication
- Multiple options for wireless connection of inverters to the internet e.g. for monitoring

Energy meter and current transformers
- Supports high accuracy production/consumption monitoring, and export limitation

CLICK ONE OF THE RED ICONS TO LEARN MORE ABOUT EACH PRODUCT
To view online, scan the QR code or copy the link: solaredge.com/offering
## SolarEdge Ordering Information

Contact your local SolarEdge distributor for more information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Single Phase Inverters with HD-Wave Technology; with SetApp Inverter configuration; 12-year warranty included</strong></td>
<td></td>
</tr>
<tr>
<td>SE2200H-RW000BNN4</td>
<td>1ph Inverter with HD-Wave Technology, 2.2kW, (-40°C)</td>
</tr>
<tr>
<td>SE3000H-RW000BNN4</td>
<td>1ph Inverter with HD-Wave Technology, 3.0kW, (-40°C)</td>
</tr>
<tr>
<td>SE3500H-RW000BNN4</td>
<td>1ph Inverter with HD-Wave Technology, 3.5kW, (-40°C)</td>
</tr>
<tr>
<td>SE3680H-RW000BNN4</td>
<td>1ph Inverter with HD-Wave Technology, 3.68kW, (-40°C)</td>
</tr>
<tr>
<td>SE4000H-RW000BNN4</td>
<td>1ph Inverter with HD-Wave Technology, 4.0kW, (-40°C)</td>
</tr>
<tr>
<td>SE5000H-RW000BNN4</td>
<td>1ph Inverter with HD-Wave Technology, 5.0kW, (-40°C)</td>
</tr>
<tr>
<td>SE6000H-RW000BNN4</td>
<td>1ph Inverter with HD-Wave Technology, 6.0kW, (-40°C)</td>
</tr>
<tr>
<td><strong>Single Phase Inverters, Power Optimizer with Compact Technology; Includes 12-year inverter warranty and 25-year power optimizer warranty; For small rooftops of 4-8 modules</strong></td>
<td></td>
</tr>
<tr>
<td>Basic Option: No Monitoring or Smart Energy Management</td>
<td></td>
</tr>
<tr>
<td>SE1000M-RW010NNN4</td>
<td>1ph 1.0kW Inverter (-40°C) &amp; M2640 Power Optimizer</td>
</tr>
<tr>
<td>SE1500M-RW015NNN4</td>
<td>1ph 1.5kW Inverter (-40°C) &amp; M2640 Power Optimizer</td>
</tr>
<tr>
<td>SE2000M-RW020NNN4</td>
<td>1ph 2.0kW Inverter (-40°C) &amp; M2640 Power Optimizer</td>
</tr>
<tr>
<td>Extended Option: Including Monitoring and Smart Energy Management</td>
<td></td>
</tr>
<tr>
<td>SE1000M-RW025NNN4</td>
<td>1ph 1.0kW Inverter (-40°C) &amp; M2640 Power Optimizer</td>
</tr>
<tr>
<td>SE1500M-RW025NNN4</td>
<td>1ph 1.5kW Inverter (-40°C) &amp; M2640 Power Optimizer</td>
</tr>
<tr>
<td>SE2000M-RW050NNN4</td>
<td>1ph 2.0kW Inverter (-40°C) &amp; M2640 Power Optimizer</td>
</tr>
<tr>
<td><strong>Three Phase Inverters, with SetApp Inverter configuration; 12-year warranty included</strong></td>
<td></td>
</tr>
<tr>
<td>SE4K-RW025NNN4</td>
<td>3ph Inverter, 4.0kW, (-40°C)</td>
</tr>
<tr>
<td>SE5K-RW025NNN4</td>
<td>3ph Inverter, 5.0kW, (-40°C)</td>
</tr>
<tr>
<td>SE7K-RW025NNN4</td>
<td>3ph Inverter, 7.0kW, (-40°C)</td>
</tr>
<tr>
<td>SE8K-RW025NNN4</td>
<td>3ph Inverter, 8.0kW, (-40°C)</td>
</tr>
<tr>
<td>SE9K-RW025NNN4</td>
<td>3ph Inverter, 9.0kW, (-40°C)</td>
</tr>
<tr>
<td>SE10K-RW025NNN4</td>
<td>3ph Inverter, 10.0kW, (-40°C)</td>
</tr>
<tr>
<td>SE12.5K-RW025NNN4</td>
<td>3ph Inverter, 12.5kW, (-40°C)</td>
</tr>
<tr>
<td><strong>StorEdge: 12-year warranty included for the inverters and 10-year warranty included for the interface</strong></td>
<td></td>
</tr>
<tr>
<td>SE5000H-RWS20NNB2</td>
<td>StorEdge 1ph Inverter (with Backup), 5kW</td>
</tr>
<tr>
<td>SE6000H-RWS20NNB2</td>
<td>StorEdge 1ph Inverter (with Backup), 6kW</td>
</tr>
<tr>
<td>SE3680H-RWS20NNB2</td>
<td>StorEdge AC Coupled 1ph Inverter with HD-Wave Technology, 3.68kW</td>
</tr>
<tr>
<td>SE5000H-RWS20NNB2</td>
<td>StorEdge AC Coupled 1ph Inverter with HD-Wave Technology, 5.0kW</td>
</tr>
<tr>
<td>SE-1PH-STRG-K1</td>
<td>StorEdge Upgrade Kit for 1ph Inverter (not for 1ph Inverters with HD-Wave Technology)</td>
</tr>
<tr>
<td>SE-3PH-STRG-K1</td>
<td>StorEdge Upgrade Kit for 3ph Inverter</td>
</tr>
<tr>
<td>* StorEdge Inverters (with Backup) are available in certain countries. Check with your local SolarEdge sales person.*</td>
<td></td>
</tr>
<tr>
<td><strong>Power Optimizers; 25-year warranty included</strong></td>
<td></td>
</tr>
<tr>
<td>P300-5RM4RM</td>
<td>For 60 cells, with max Vin (@ min temp) 48V, output cable length 0.95m</td>
</tr>
<tr>
<td>P370-5RM4RM</td>
<td>For 72 cells, with max Vin (@ min temp) 50V, output cable length 0.95m</td>
</tr>
<tr>
<td>P404-4RM4RM</td>
<td>For 60/72 cells, with max Vin (@ min temp) 80V, output cable length 1.2m</td>
</tr>
<tr>
<td>P405-4RM4RM</td>
<td>For thin film modules, with max Vin (@ min temp) 125V, output cable length 1.2m, single input</td>
</tr>
<tr>
<td>P485-4RMD4RM</td>
<td>For thin film modules, with max Vin (@ min temp) 125V, output cable length 1.2m, dual input</td>
</tr>
<tr>
<td>P500-5RM4RM</td>
<td>For 96 cells, with max Vin (@ min temp) 80V, output cable length 1.2m</td>
</tr>
<tr>
<td>P505-4RMD4RM</td>
<td>For high current modules, with max I in 14A, with max Vin (@ min temp) 83V, output cable length 1.2m</td>
</tr>
</tbody>
</table>
### SolarEdge Ordering Information

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<table>
<thead>
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<th>Part Number</th>
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<tr>
<td><strong>Frame-Mounted Power Optimizers, 25-year warranty included</strong></td>
<td></td>
</tr>
<tr>
<td>P300-5RM4MFS</td>
<td>For 60 cells, with max Vin (@ min temp) 48V, output cable length 0.95m</td>
</tr>
<tr>
<td>P370-5RM4MFM</td>
<td>For 72 cells, with max Vin (@ min temp) 60V, output cable length 0.95m</td>
</tr>
<tr>
<td>P404-4RM4MFM</td>
<td>For 60/72 cells, with max Vin (@ min temp) 80V, output cable length 1.2m</td>
</tr>
<tr>
<td>P500-5RM4MFM</td>
<td>For 96 cells, with max Vin (@ min temp) 80V, output cable length 1.2m</td>
</tr>
<tr>
<td><strong>Communication Products, 5-year warranty included</strong></td>
<td></td>
</tr>
<tr>
<td>SE1000-GSMO2-B</td>
<td>Cellular Plug-in for Inverters with SetApp Configuration</td>
</tr>
<tr>
<td>SE-ACT-3PH-GSM-K2</td>
<td>Communication Board and Cellular Plug-In Upgrade for Three Phase Inverters</td>
</tr>
<tr>
<td>SE1000-WIFI01</td>
<td>Wi-Fi Plug-in</td>
</tr>
<tr>
<td><strong>For inverters with a display</strong></td>
<td></td>
</tr>
<tr>
<td>SE6000H-RW-31-RW</td>
<td>Demo 1ph Inverter with HD-Wave Technology, with SetApp Configuration</td>
</tr>
<tr>
<td>SE2000M-EMP-K</td>
<td>Demo 1ph Inverter with Compact Technology</td>
</tr>
<tr>
<td>SE8K-RW00E-EMP-BT</td>
<td>Demo 3ph Inverter, 3-10kW, with SetApp Configuration</td>
</tr>
<tr>
<td>SE17K-EMP-B</td>
<td>Demo 3ph Inverter, 12.5kW, with SetApp Configuration</td>
</tr>
<tr>
<td>SESTS-S1-EMP</td>
<td>Demo StorEdge Interface</td>
</tr>
<tr>
<td>SE5000-RWS-EMP</td>
<td>Demo StorEdge 1ph Inverter (with Backup)</td>
</tr>
</tbody>
</table>

### Inverter Warranty Extensions

For single phase inverters with HD-Wave technology, purchased within 24 months of shipment date:

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WE-HD1S-20</td>
<td>20 years, 1ph Inverter with HD-Wave Technology &lt; 4 kW</td>
</tr>
<tr>
<td>WE-HD1M-20</td>
<td>20 years, 1ph Inverter with HD-Wave Technology 4-6 kW</td>
</tr>
<tr>
<td>WE-HD1M-25</td>
<td>25 years, 1ph Inverter with HD-Wave Technology 4-6 kW</td>
</tr>
</tbody>
</table>

For single phase inverters with compact technology, purchased within 24 months of shipment date:

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WE-CR1-20</td>
<td>20 years, 1ph Inverter with Compact Technology ≤ 2 kW</td>
</tr>
<tr>
<td>WE-CR1-25</td>
<td>25 years, 1ph Inverter with Compact Technology ≤ 2 kW</td>
</tr>
</tbody>
</table>

For StorEdge Inverters, purchased within 24 months of shipment date, up to 25 years:

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WE-S1S-20</td>
<td>20 years, StorEdge 1ph Inverter (with Backup)</td>
</tr>
<tr>
<td>WE-S1S-25</td>
<td>25 years, StorEdge 1ph Inverter (with Backup)</td>
</tr>
</tbody>
</table>

### Monitoring & Installer Tools

Free, real-time, module-level monitoring of PV system performance via the SolarEdge monitoring platform. Accessible from your computer or mobile device.


Free, web-based PV design tool used to plan, build and validate your SolarEdge systems from inception to installation.


### Display Products

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Description</th>
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</thead>
<tbody>
<tr>
<td>SE6000H-RW-EMP-B</td>
<td>Demo 1ph Inverter with HD-Wave Technology, with SetApp Configuration</td>
</tr>
<tr>
<td>SE2000M-EMP-K</td>
<td>Demo 1ph Inverter with Compact Technology</td>
</tr>
<tr>
<td>SE8K-RW00E-EMP-BT</td>
<td>Demo 3ph Inverter, 3-10kW, with SetApp Configuration</td>
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<td>SE17K-EMP-B</td>
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<td>SESTS-S1-EMP</td>
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<td>Demo StorEdge 1ph Inverter (with Backup)</td>
</tr>
</tbody>
</table>
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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