

SolarEdge Residential Offering for Installers



solar**edge**

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SolarEdge Fact Sheet

About Us

In 2006, SolarEdge invented an intelligent inverter solution that has changed the way power is harvested and managed 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 consume energy will lead to a better future for us all



Bankability

- SolarEdge has been audited and approved by major banks and financial institutions for projects and funds worldwide
- Our financial strength and stability, combined with our cutting-edge technology, make us the preferred partner for industry-leading installers, integrators and distributors
- Publicly traded on the NASDAQ under the SEDG symbol

Global Outreach

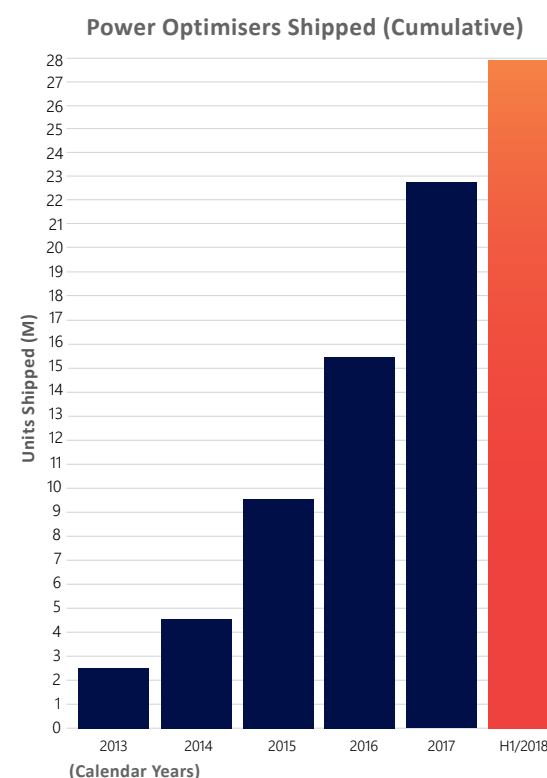
- Systems installed in over 120 countries across five continents
- Sales via leading integrators and distributors
- Follow the sun call centers
- Local teams of sales, service, marketing, and training experts
- Global manufacturing with tier 1 electronic manufacturing service companies



Received nearly 30 awards from prestigious organisations including Red Herring, Frost & Sullivan, Intersolar, the Stratus Award, and the Edison Awards™

Shipping Since 2010

- Over 1 million inverters shipped worldwide
- SolarEdge's monitoring platform continuously tracks hundreds of thousands of installations across the globe



Corporate Social Responsibility

- As an industry leader in renewable energy technologies, SolarEdge strives to limit the harmful effects of traditional energy sources by promoting the spread of clean, sustainable energy around the world
- SolarEdge 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

- Long product warranties: 25-year power optimiser 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

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



Monitoring Platform

- Free real-time monitoring of every system panel
- Visibility of PV production, consumption and self-consumption, battery storage, and smart energy
- Automatic alerts
- Easy access from mobile devices, anytime, anywhere



Smart Panels

- Premium SolarEdge smart panels, each pre-assembled with a power optimiser for greater energy harvest
- Elegant panel design with a black frame
- Excellent reliability, with superior quality control guaranteed by SolarEdge

Power Optimiser

- Assembled on each SolarEdge smart panel on the roof, for increased panel output, enhanced system safety, and real-time panel information
- Can also be installed on third-party panels, converting them into smart panels



Inverter

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



Three phase inverter



Single phase inverter with HD-Wave technology



StorEdge inverter, for backup power

StorEdge®

- Store unused PV energy in batteries for times when solar energy is not available
- Use backup power during power outages

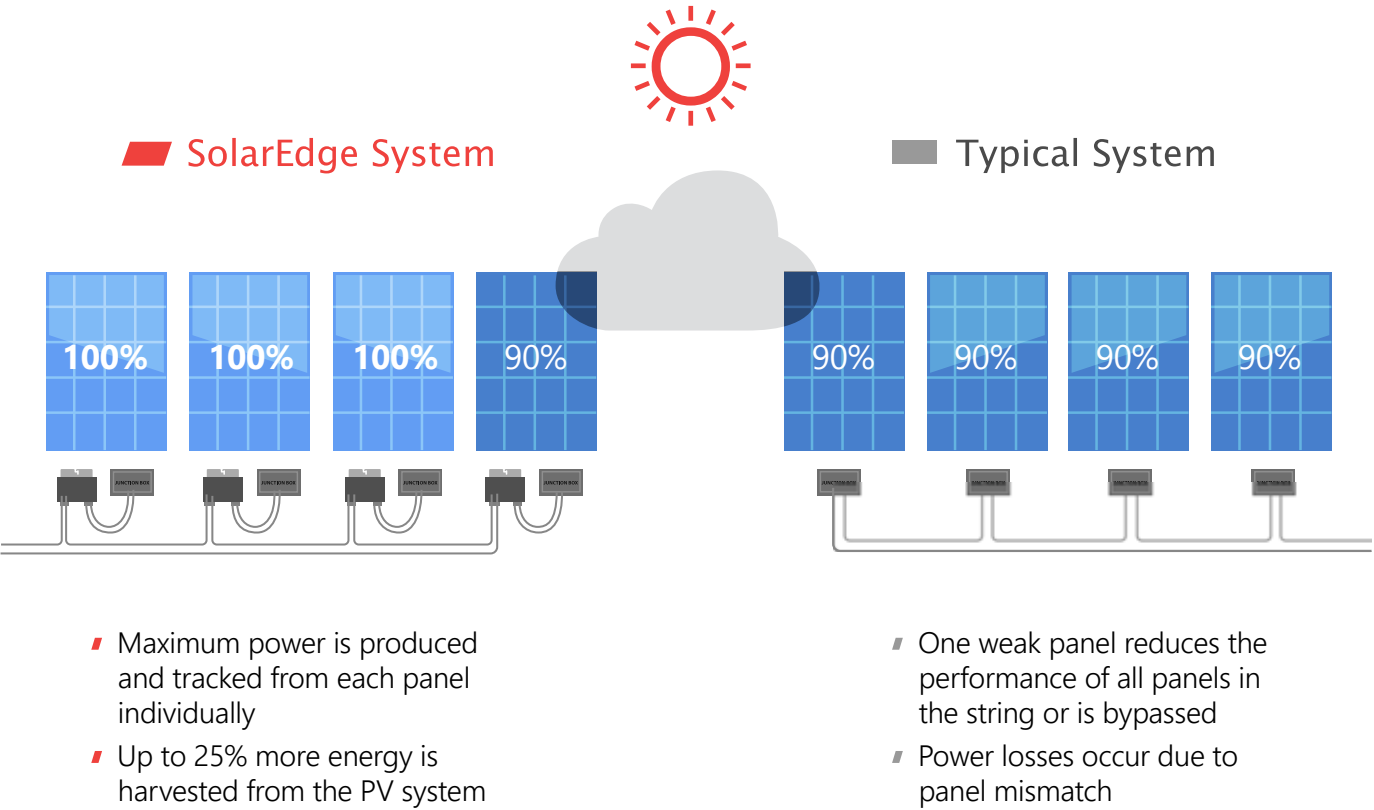
Compatible with

 LG Chem RESU 7H/10H batteries

More Energy from Each Panel

In a PV system, each panel has an individual maximum power point. Differences between panels are unavoidable in PV installations. With traditional inverters, the weakest panel reduces the performance of all panels.

With SolarEdge, each panel produces the maximum energy, and mismatch-related power losses are eliminated.



Homeowner Value: More Energy

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

Power losses can result from:

Manufacturing Tolerance Mismatch

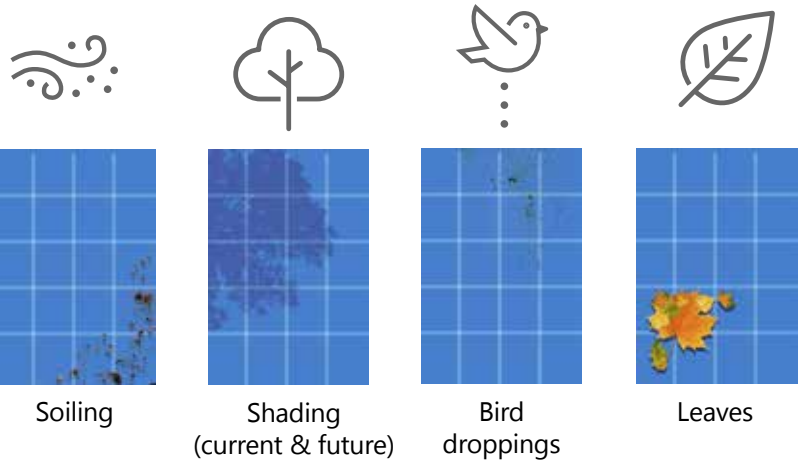
The warranted output power range for PV panels received from a manufacturing plant may vary greatly. A standard deviation of $\pm 3\%$ is sufficient to result in $\sim 2\%$ energy loss.



Guaranteed power output from panel manufacturers 0~+3%

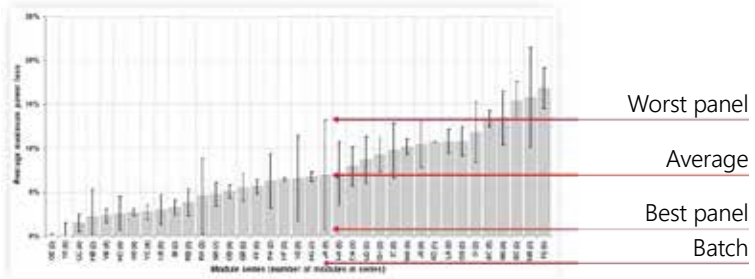
Soiling, Shading and Leaves

Panel soiling, from dirt or bird droppings, contribute to mismatch between panels 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 Panel Aging

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



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



Inverter voltage < 30v



Superior 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 panel-level safety feature which minimises electrocution risk. To maintain string voltage below risk levels, power optimisers are designed to automatically switch into safety mode, in which the output voltage of each panel 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 emergency, when the inverter or AC connection is shut down
- When the thermal sensors of the power optimisers detect a temperature above 85 °C

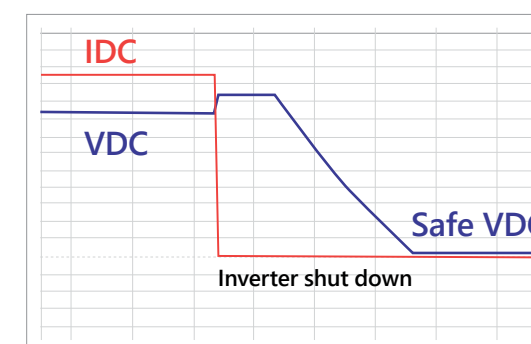


The SolarEdge SafeDC™ feature is certified in Europe as a DC disconnect according to IEC/EN 60947-1 and IEC/EN 60947-3 and to the safety standards VDE AR 2100-712 and OVE R-11-1.

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.



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

Homeowner Value: Superior Safety

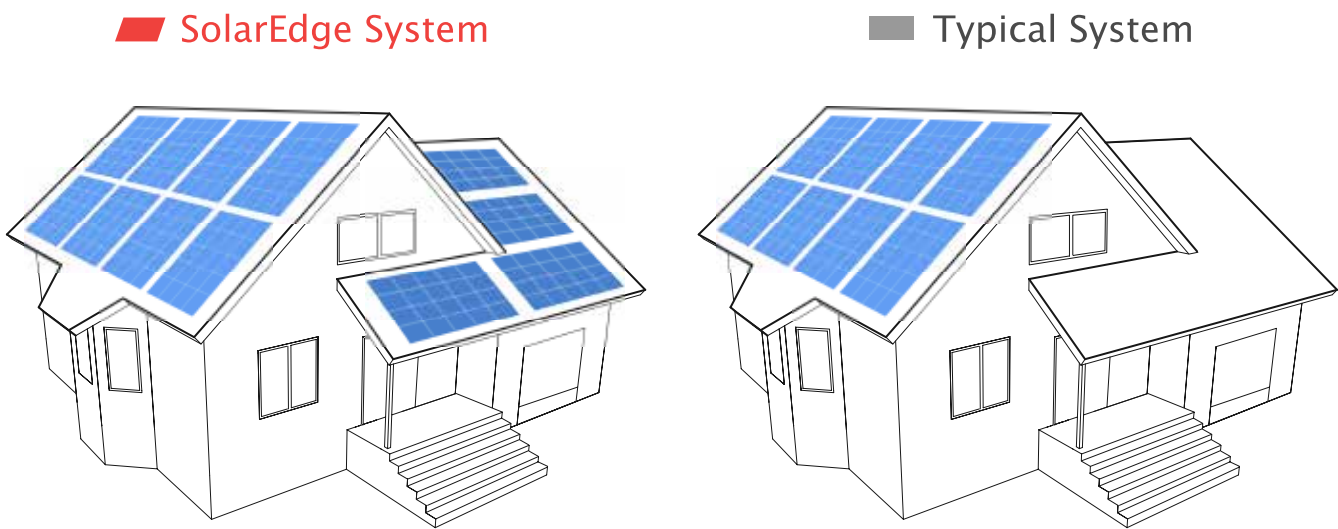
For decades now, PV systems have proven to pose minimal safety risks. SolarEdge further improves PV safety with its SafeDC™ feature, designed to reduce your PV system's high voltage to a safe 1 volt per panel whenever the grid is shut off, protecting solar professionals, installers, firefighters and your home.

Design Flexibility

More power, more revenue, and more aesthetic rooftops

The SolarEdge system topology enables efficient use of all available roof space through unprecedented design flexibility. A wide variety of string lengths is possible with no requirement for matching string lengths. With longer strings, the installer's BoS costs are lowered. The size and layout of an array is no longer defined by electrical constraints. Shaded panels do not bring down the entire string performance, and panels power rating, bin, and type can be mixed in multiple orientations or tilts, in the same string.

With SolarEdge's optimised design flexibility, every installation can become more profitable with the ability to sell more panels at no extra customer acquisition and installation costs.



Homeowner Value: Design Flexibility

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

Peace of Mind

Panel-Level Monitoring

SolarEdge delivers free, real-time remote monitoring at the panel, string, and system levels, ensuring that the installation is performing to the best of its ability at all times. 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 result in minimal and shortened onsite visits.

It offers customisable views so that installers can share either system-level or panel-level performance. Numerous communication options exist for connecting SolarEdge inverters to the monitoring platform, via hardwired Ethernet, Wi-Fi, ZigBee® wireless, or GSM 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 optimised inverter solution effectively minimises these potential costs.

- Replacement: SolarEdge allows panels of different power classes and brands in the same string. Any panel available in the market could fit.
- Expansion: New power optimisers and panels can be utilised in the same string with older models.

SolarEdge products are built for long-term performance, with industry-leading warranties of 25 years for power optimisers, 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: 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.

Smart Panels with Pre-assembled Power Optimisers



By offering best-in-class smart panels, SolarEdge has expanded its comprehensive residential offering even further. Pre-assembled with power optimisers, the smart panels combine with SolarEdge’s award-winning inverters to enable faster and easier PV installations than before.

We Know PV

As a global leader in solar technology, SolarEdge’s solar panel expertise comes from selling over 27 million power optimisers, compatible with hundreds of different panel types installed on every kind of roof, in over 130 countries. The smart panel carries the SolarEdge seal of approval, and has been independently tested by PI Berlin, further ensuring high quality and reliability.

Bringing Value to Installers



Bringing Value to Homeowners



From PV to Grid with One Solar Vendor

Increased Performance



Pre-assembled power optimisers to harvest more power from each panel

Aesthetic Design



Elegant design with black-framed panel offering

Excellent Reliability



Superior quality control guaranteed by SolarEdge. Full automatic production line and 100% EL triple inspection, independently verified by PI Berlin

Improved Pricing



Cost-effective system pricing, with all key components from a single vendor

Long-term Warranty



12-year panel warranty and 25-year performance warranty

Complete Solution



Full system offering, warranty, and service, all from SolarEdge, a bankable and financially stable company

Complete your SolarEdge portfolio with 300W smart panels for easier system design and other unique benefits:

- Full offering and complete service from SolarEdge:
 - Inverters and smart panels with integrated power optimisers, all from one supplier
 - Single vendor for warranty and servicing
 - Simpler, more efficient logistics and product warehousing
- Reduced installation time and costs with pre-assembled power optimisers
- Optimised energy output with MPPT per panel
- Automatic panel-level voltage shutdown for installer and firefighter safety
- Maximum design flexibility
- Full visibility of system performance from panel to grid

SolarEdge smart panels enhance an already powerful residential offering for your customers, including:

- Premium PV panels to boost performance and aesthetics
 - Improved curb appeal with elegant black-framed panel design
 - Peace of mind thanks to excellent product and performance warranty, with proven panel reliability
- Mitigation of all types of panel power losses
- Optimised energy output of each individual panel
- Automatic panel-level voltage shutdown protecting people and property
- Easy upgrades to battery storage and smart energy solutions with a truly future-proofed system

Single Phase Inverters with HD-Wave Technology

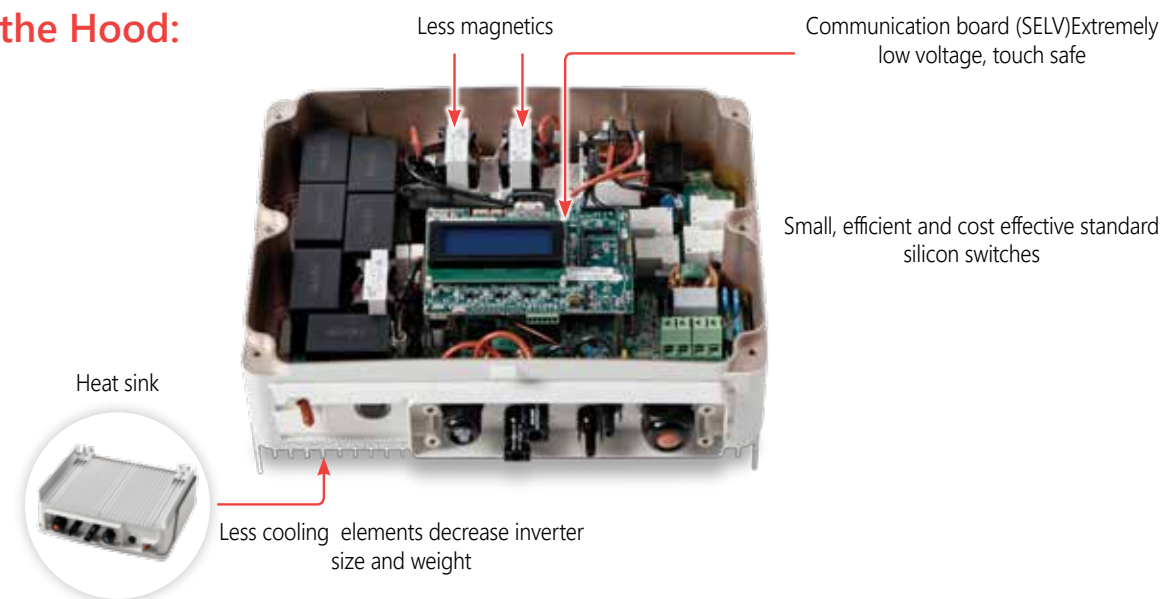
A New Era for Inverter Technology

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.

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 current SolarEdge inverters, which are already among the smallest on the market.



Under the Hood:



Product Features:

- Multiple sizes with 2.5kW to 10kW inverter range
- More energy from a record 99% weighted efficiency
- More panels on the rooftop with up to 155% 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 panel-level monitoring
- Comprehensive commissioning with automatic power optimiser ID and string assignment detection
- Backward compatibility with existing SolarEdge systems

Three Phase Inverters for Residential Installations

Making Three Phase Installations Easier



SolarEdge's three phase residential inverters provide a simple and cost-effective installation using a single three phase inverter instead of multiple single phase inverters. This solution also complies with AS/NZS5033:2014 clause 3.1: PV array maximum voltage requirement for installations on domestic dwellings with a three phase grid.

Product Features:

- Multiple inverter sizes including 5kW, 7kW, and 8kW
- 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 panel-level monitoring
- IP65-rated, suitable for indoor or outdoor installations
- Internet connection via Ethernet or wireless communication (using Wi-Fi, ZigBee, or GSM plug-ins)

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 maximising energy independence from the grid.

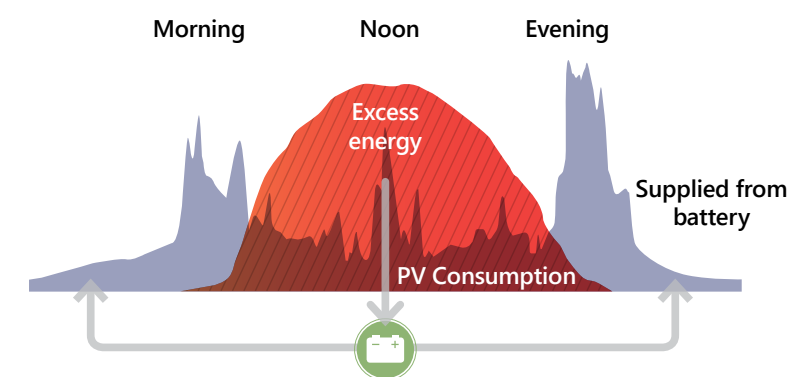


StorEdge is based on a single SolarEdge DC optimised inverter that manages and monitors PV production, consumption and storage. StorEdge is compatible with the LG Chem RESU 7H and 10H batteries.



Optimising Self-Consumption

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

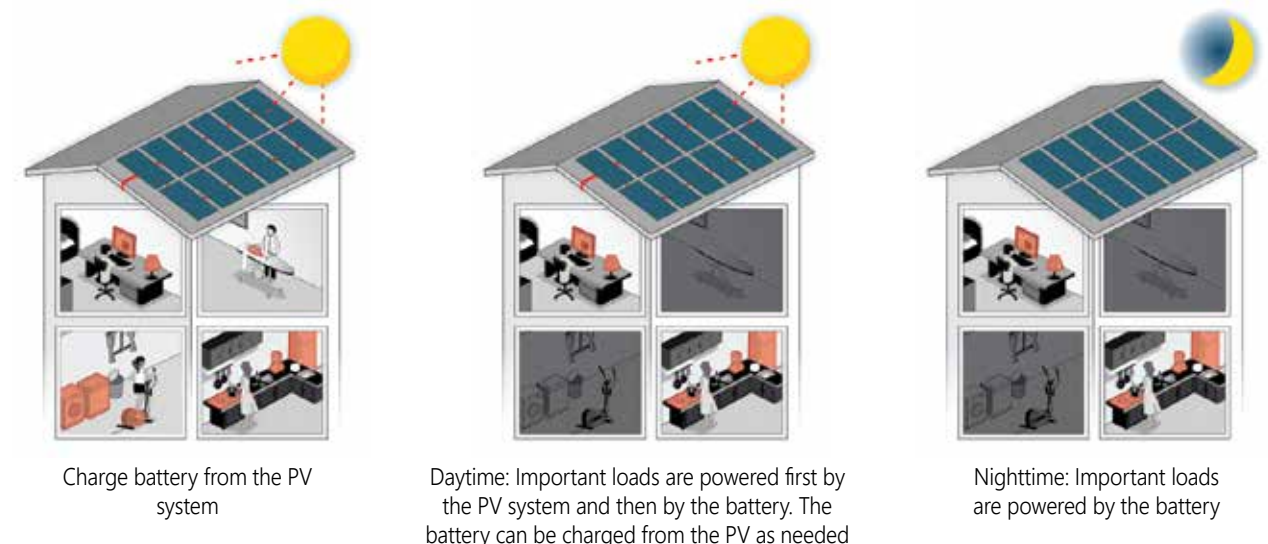


Using StorEdge, excess energy produced during peak sunlight hours when consumption is low is stored to a battery and used later. Energy isn't wasted!

Optimising Self-Consumption + Backup Power

In addition to optimising 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, day or night.

Providing backup power day or night



Maximising the Homeowner's Solar Investment with StorEdge

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



More Energy

- Power optimisers increase rooftop energy harvest
- PV power is stored directly in the battery
- DC coupled battery solution allows high system efficiency, as there are no additional conversions from AC to DC and back to AC



Simple Design and Installation

- A single inverter for PV, storage and backup power
- Outdoor installation allows flexibility in battery location
- No special wires are required > utilises the same PV cables



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



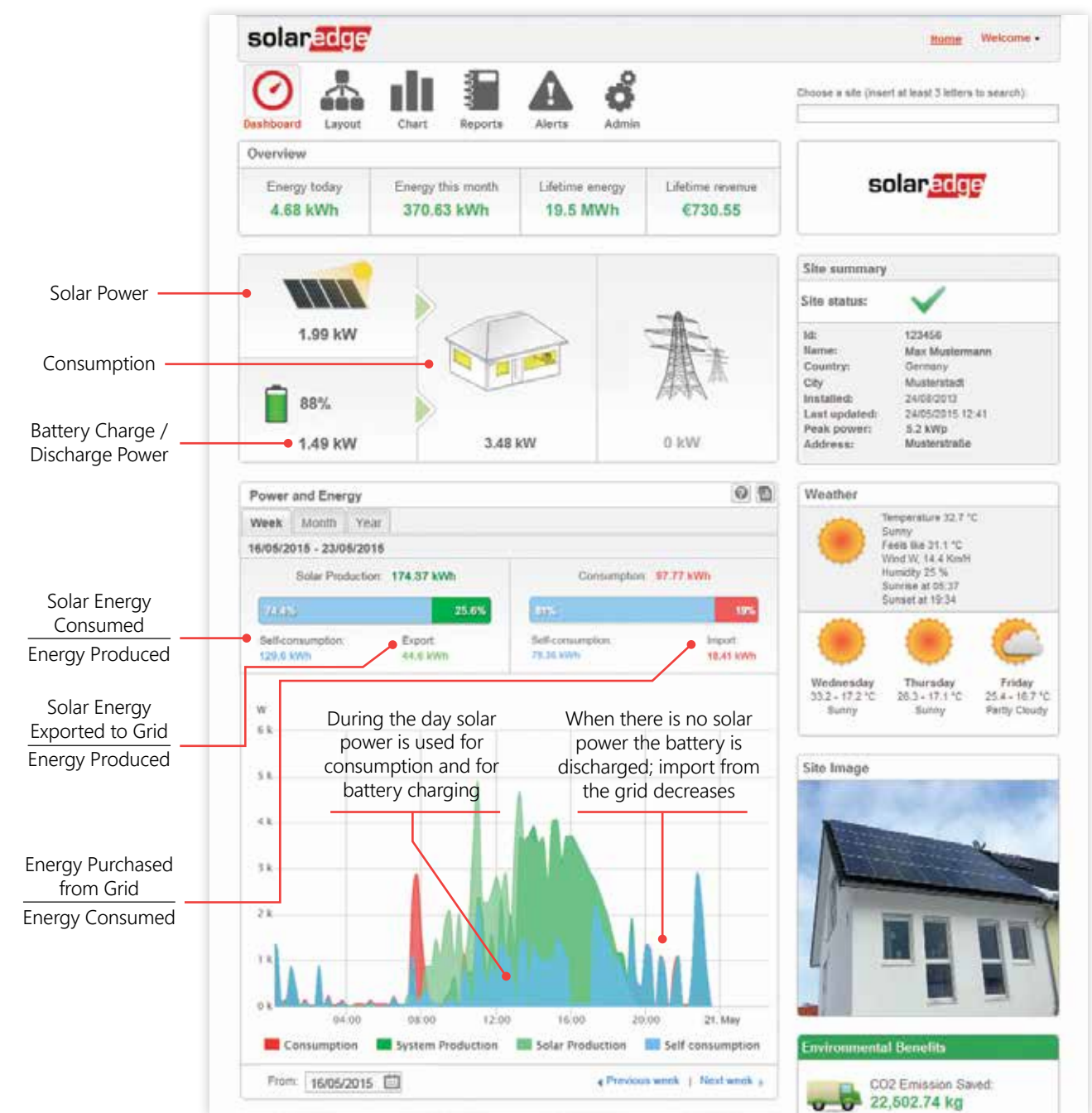
Enhanced Safety

- PV array and battery voltage reduced to a safe voltage automatically upon AC shut down when not in backup mode
- Complies with NEC 2014 690.12 and IEC 60947



Full Monitoring of PV and StorEdge Systems

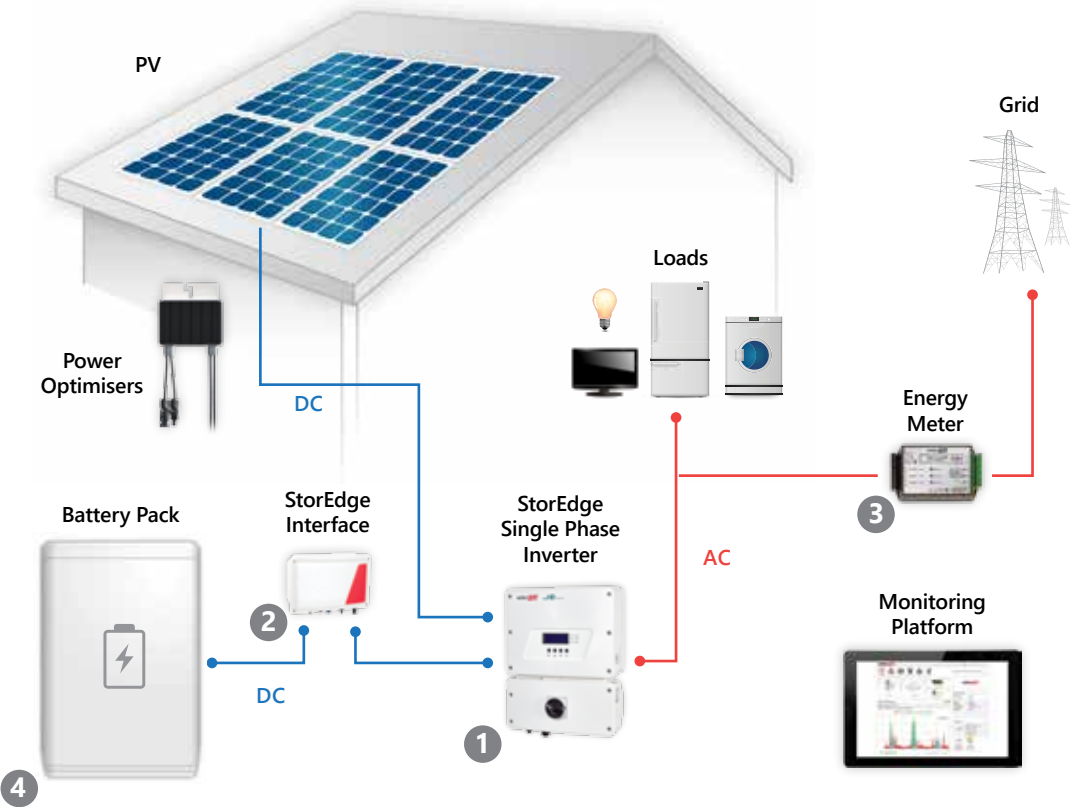
The SolarEdge monitoring platform provides insight into household PV production and consumption, displaying the power flow between the PV array, battery, grid and house loads as well as tracking real-time system data.



Dashboard from the SolarEdge monitoring platform

Basic StorEdge DC-Coupled Applications

Optimising Self-Consumption



1. Single Phase Inverter

The inverter manages battery and system energy, in addition to its functionality as a PV inverter


2. StorEdge Interface

Connects the battery to a SolarEdge inverter
Connects to the inverter in parallel to the PV strings

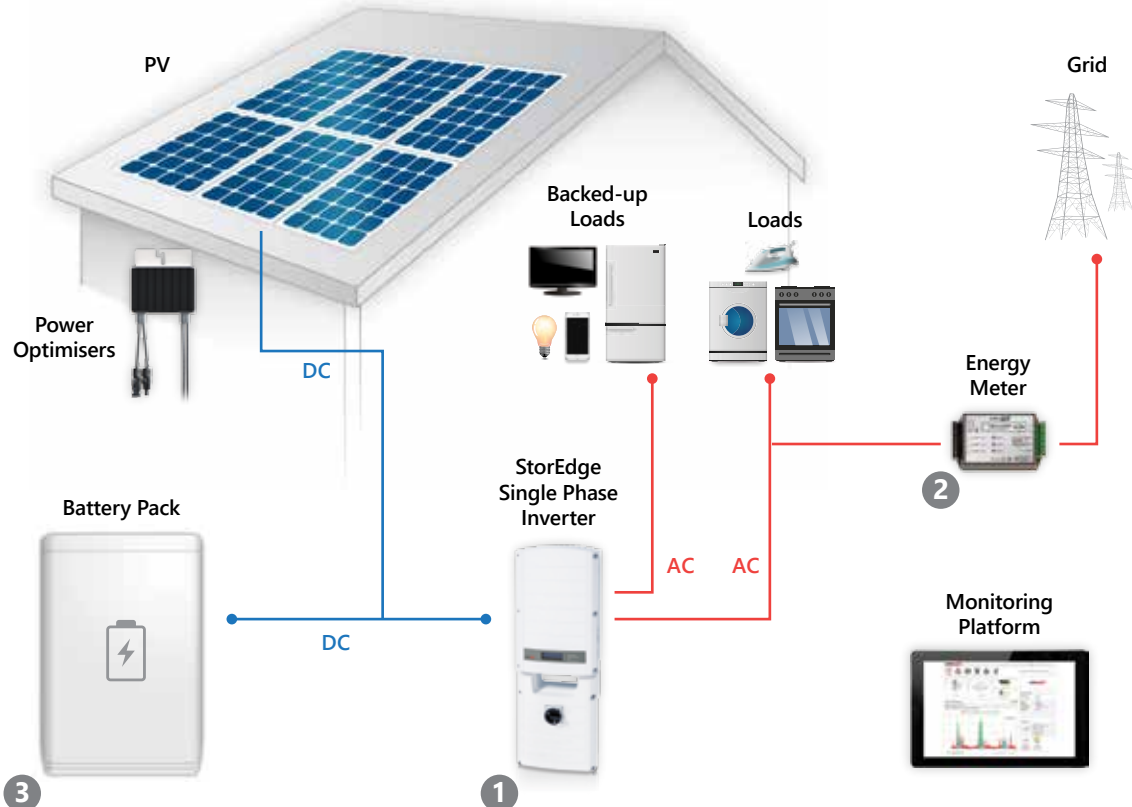
3. Energy Meter with Modbus Connection and Current Transformers

For measuring electricity import and export
The energy meter is required for self-consumption management

4. Battery Pack

Compatible with DC coupled, high-voltage and high-efficiency batteries from LG Chem
Compatible with
 **LG Chem**

Optimising 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

Needed for on-grid applications such as export limitation, demand response and peak shaving, and time of use shifting. Integrates with the SolarEdge Inverter and monitoring platform

3. Battery Pack

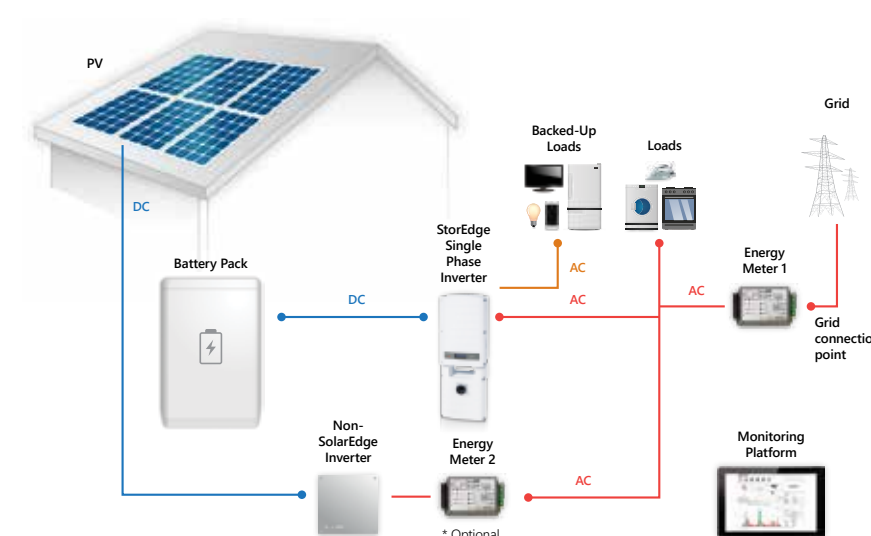
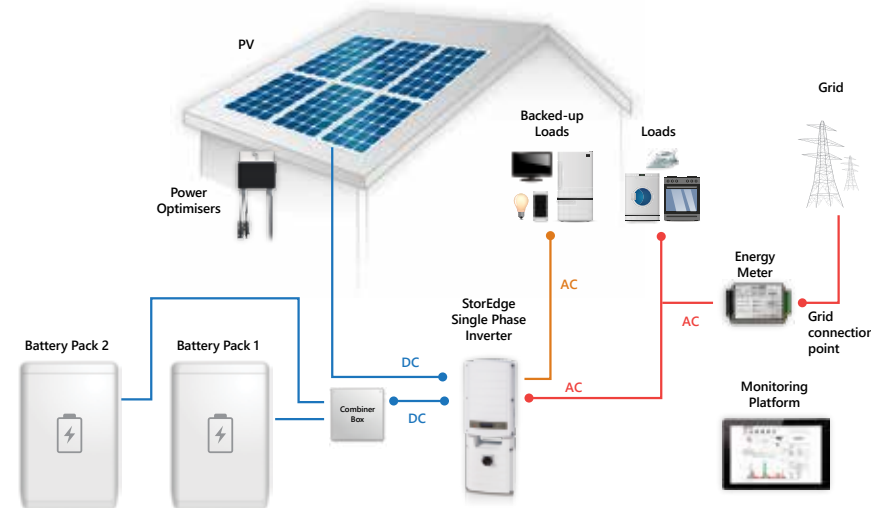
Compatible with DC coupled, high-voltage and high-efficiency batteries from LG Chem
Compatible with
 **LG Chem**

Advanced StorEdge Configurations

/ Additional Capacity (with Backup)*

For homes with high consumption, requiring extra battery capacity, two batteries are connected to a single StorEdge single phase inverter, with only one battery operating at a given time. During power outages, power is supplied to backed up loads.

* Supporting LG Chem RESU10H only. When connecting two LG Chem batteries, each battery must have a different part number; supporting SolarEdge firmware required



* Optional - needed for full system monitoring: consumption, self-consumption and inverter production

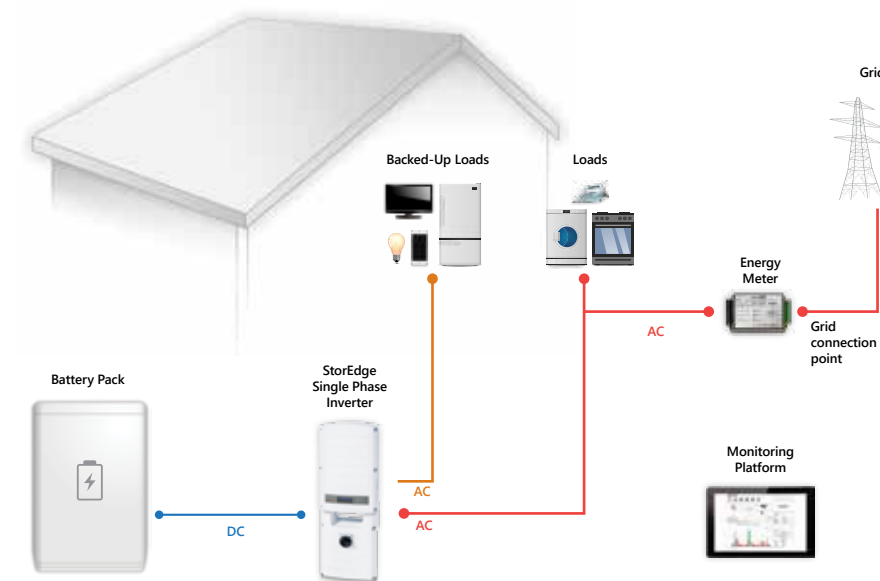
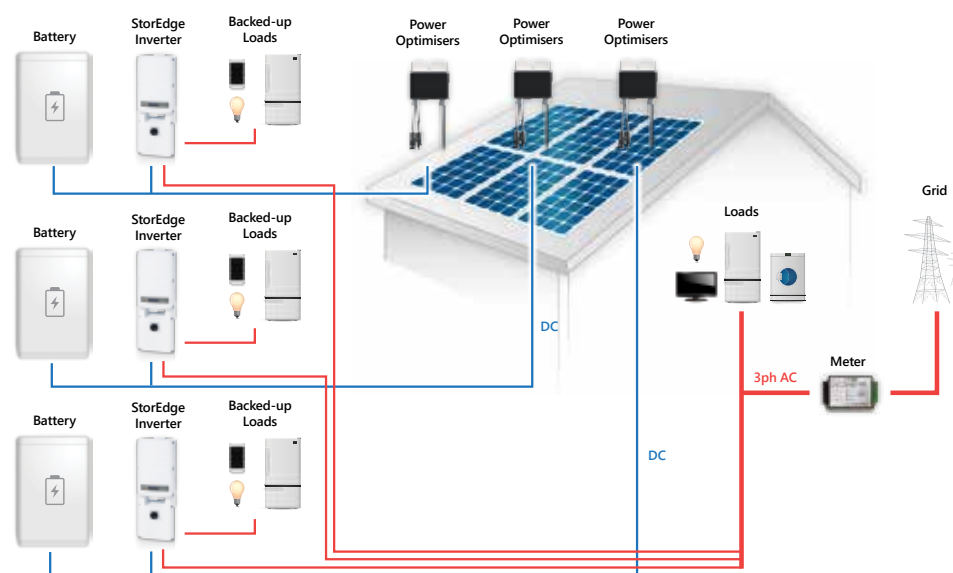
/ Connection to a non-SolarEdge inverter

The StorEdge inverter can also be used to control the battery even on legacy PV systems installed with non-SolarEdge inverters. To upgrade existing single or three-phase legacy PV installations, connect the StorEdge inverter to the AC output of the non-SolarEdge inverter (AC-coupled). The StorEdge inverter charges the battery using the PV power produced by the non-SolarEdge inverter.

/ Additional Capacity and Power (with Backup) for Three Phase Homes**

For three phase installations where additional capacity and power with multiple inverters is needed (for example, to enable more backed-up loads to be powered simultaneously), up to three StorEdge inverters and three batteries may be installed. Each battery connects through a separate StorEdge inverter on each of the house phases, and each inverter manages the battery and the PV connected to it.

** Supporting SolarEdge firmware required



/ Backup Power without PV

A StorEdge system may be installed for sites without a PV system requiring backup power. The battery is charged from the AC grid only.

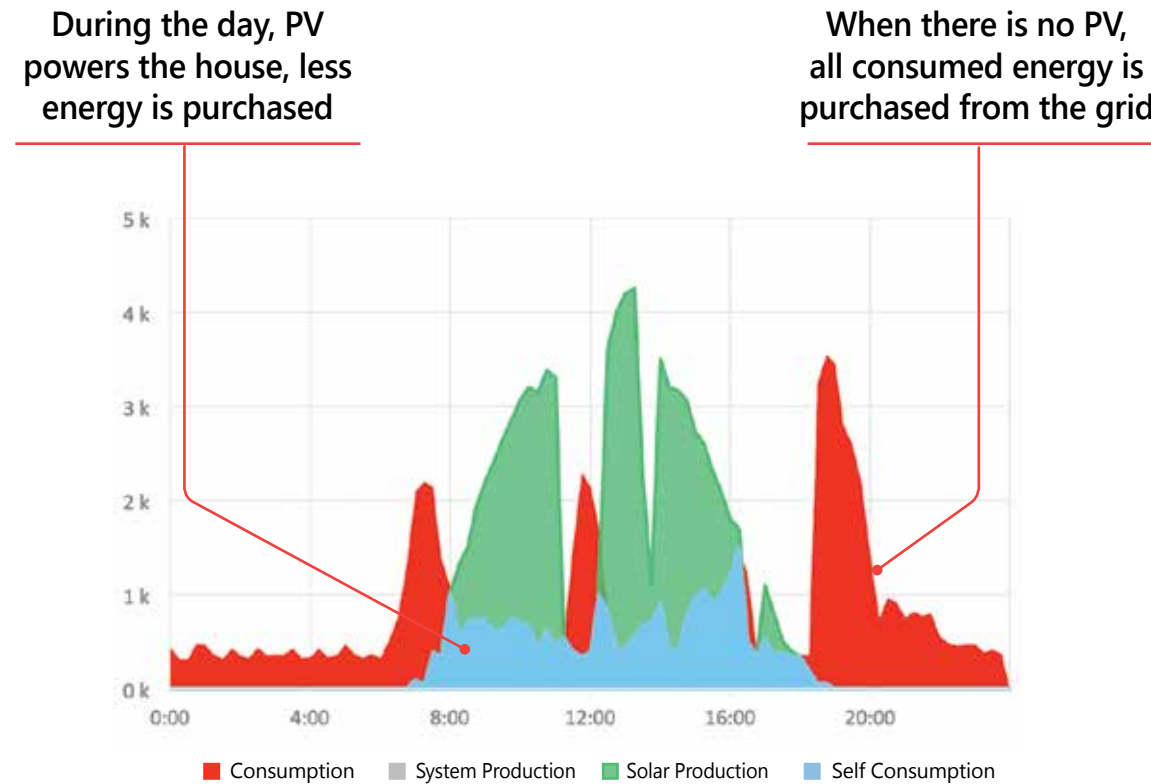
StorEdge Case Study: Increasing Self-Consumption

By simply adding StorEdge to its existing SolarEdge PV system, this typical household was able to more than double its self-consumption levels.

Before - monitoring self-consumption:

5kW System on April 8, 2015 (before battery installation)

Total produced energy	Total purchased energy	Total consumed energy	Self-consumption level
21.37 kWh	13.57 kWh	20.61 kWh	7.04kWh 33%

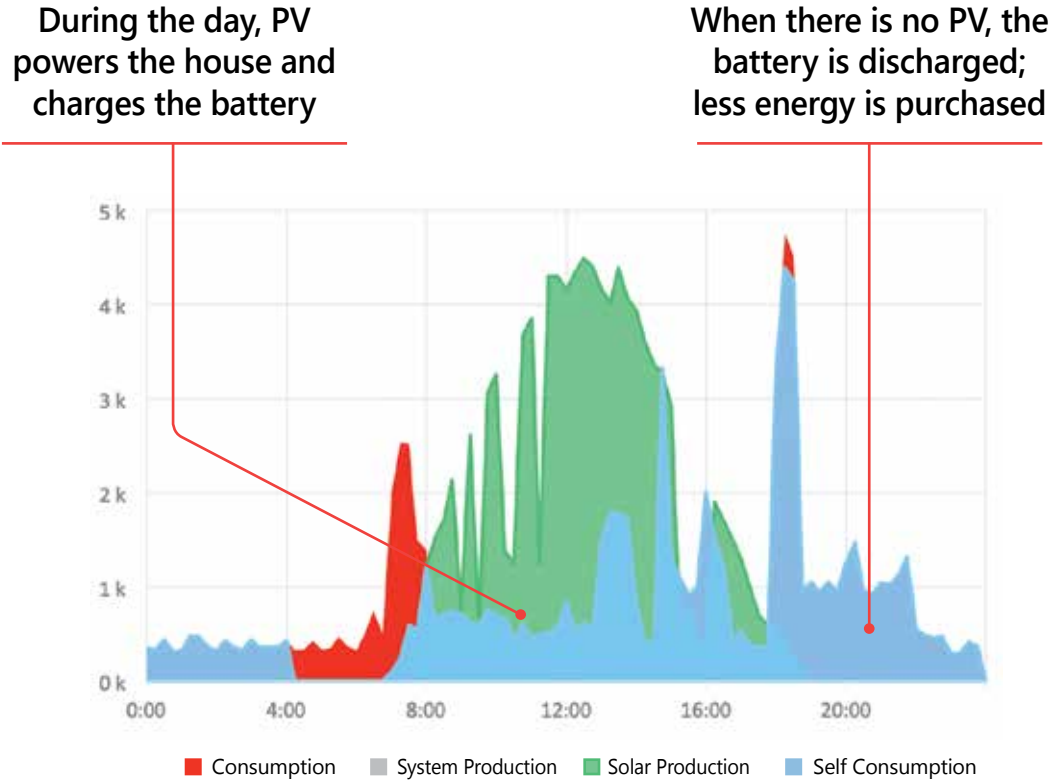


*Based on a SolarEdge 5kW residential PV system

After - increasing self-consumption:

5kW System on April 15, 2015 (after battery installation)

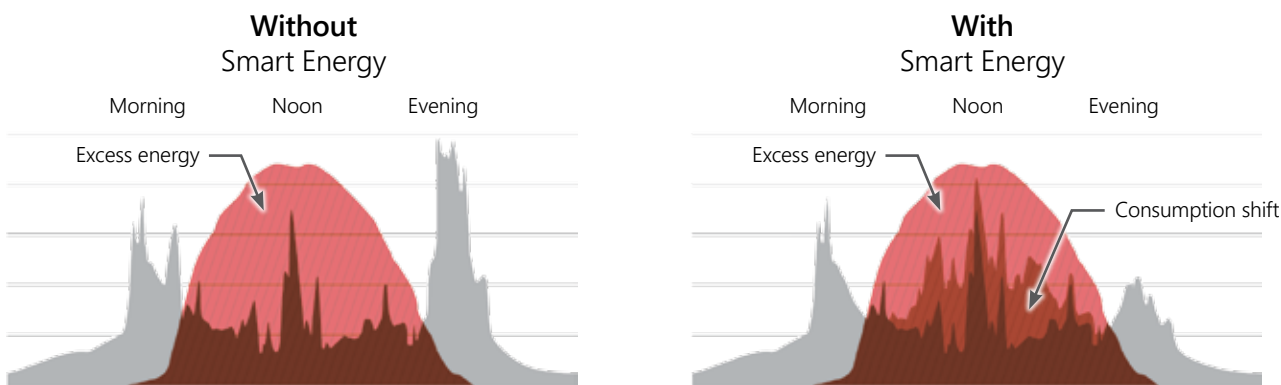
Total produced energy	Total purchased energy	Total consumed energy	Calculated self-consumption level
25.41 kWh	3.17 kWh	21.53 kWh	18.36kWh 72%



After installing StorEdge, PV self-consumption jumped from 33% to 72%

Smart Energy Products

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 solar energy, storage management smart energy under the control of a single SolarEdge inverter.

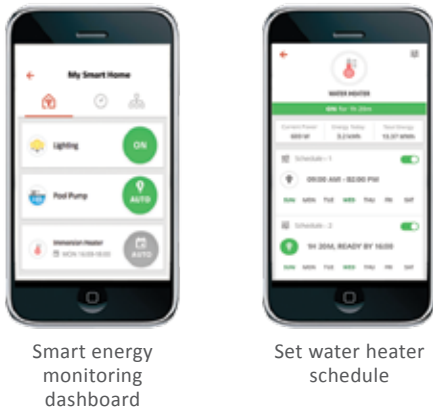


Smart Energy Applications

- Smart Energy Hot Water**
ZigBee wireless controller automatically diverting excess PV energy to the electric water heater, providing hot water and highly cost-effective energy storage
- Smart Energy Switch**
ZigBee wireless switch for controlling electrical loads, such as pool pumps, fans, lighting and other typical home appliances
- Smart Energy Relay**
ZigBee 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.

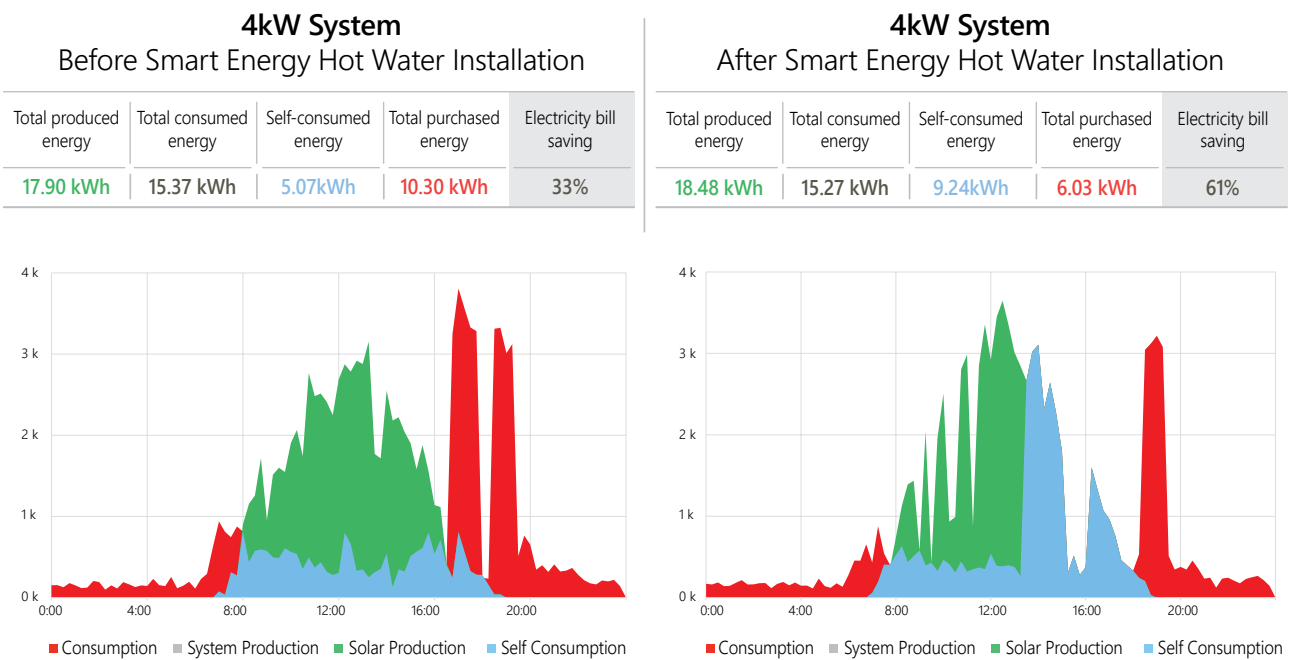


The Benefits of Using Smart Energy Products

- 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 maximised 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 and immersion heater, 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

In Australia grid electricity prices are constantly on the rise. This is motivation to install PV systems that minimise grid consumption during the day. However, some local Australian grid regulations do not allow or set a limit on, the export of excess PV energy back into the grid. Therefore, PV systems cannot be installed without an energy management system to control the maximum amount of power that is allowed to be exported into the grid. Furthermore, certain energy network operators process export limited system requests faster, due to the lower effect and impact these systems have on their grid network.

SolarEdge offers an export limitation option, integrated in the SolarEdge inverter firmware, which dynamically adjusts PV power production. This allows you to install PV systems of any size, while ensuring the power exported to the grid does not exceed the limitation.

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 exported 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 can be configured by SolarEdge if required by local utility, and can be locked after setting to prevent unauthorised configuration changes
- 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

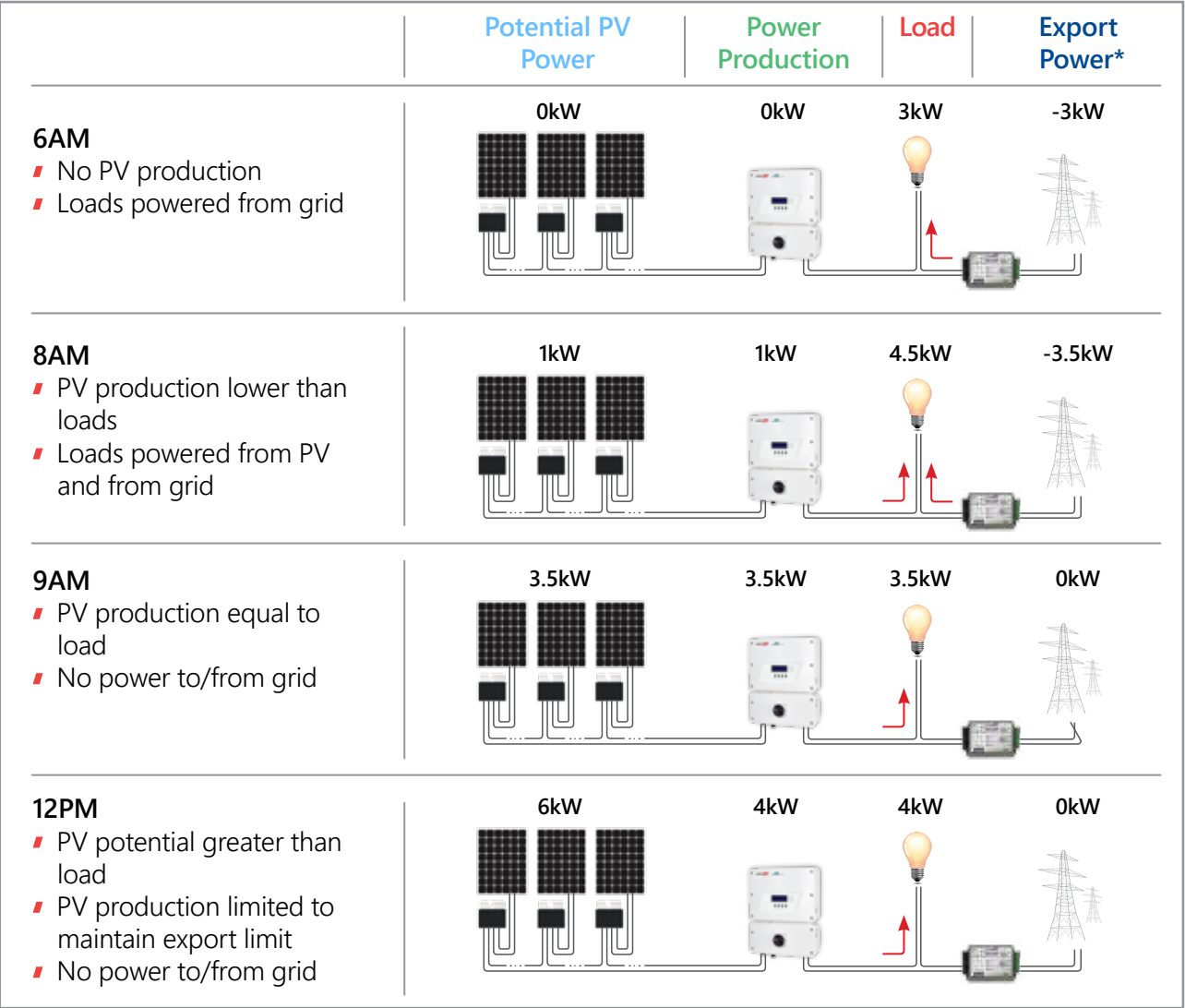
Meter Support

- 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



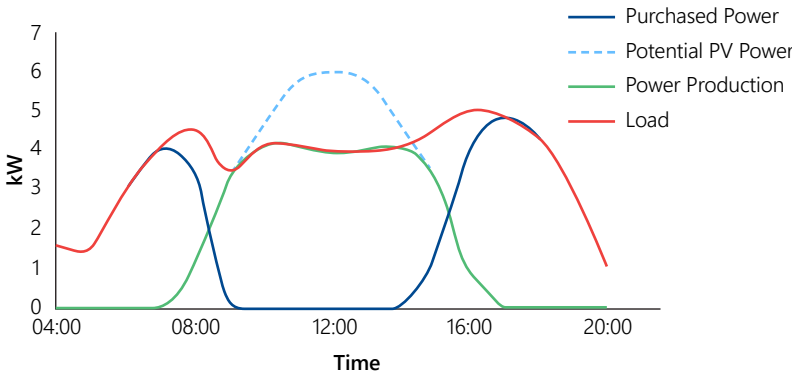
Export Limitation Operation Example

The following example illustrates the behaviour of a 6kW PV system, with export power limit of 0W - no export to the grid.



* Minus sign indicates power is purchased from the grid

The overall behavior of the example system throughout the day can be seen in the following chart:



Working with SolarEdge

SolarEdge offers its PV installers a wide range of services to help make your SolarEdge experience as positive as possible.

Support

SolarEdge offers comprehensive pre and post-sale technical services including technical documentation and personal project-based technical consulting. Don't hesitate to contact the SolarEdge support team with any technical or service request. Just open a case via the Support tab of your SolarEdge monitoring dashboard or from the SolarEdge website **Support** page. SolarEdge support staff is available to provide remote assistance, either locally in Australia or from our follow-the-sun service centre.

Training

Expand your knowledge of SolarEdge products and solutions by taking advantage of a wide variety of webinars and E-learning courses directly available on the SolarEdge website **Training** page. Don't forget to register for SolarEdge training seminars taking place in a location near you and learn first-hand from our local Australian sales and training staff.

Alliance Program

SolarEdge welcomes you to its Alliance program. Start accumulating 15 points for every kW of SolarEdge system that you register on the SolarEdge monitoring platform. Redeem your points promotional materials or gifts, perfect for company employees or family members.

There is no need to register for the program, and points can be redeemed for a wide selection of attractive gifts.

To redeem your accumulated points, just access your Alliance account via the **SolarEdge website**.

Marketing Tools

Grow your business with SolarEdge by utilising existing marketing collateral to help you sell SolarEdge solutions. Visit the SolarEdge website **Downloads** section to access product catalogues, brochures, case studies, datasheets and more.

Consult with SolarEdge when designing your showroom or exhibition space to ensure the latest products and solutions are on display. SolarEdge also supports you with customised marketing tools by adding your company logo to end user collateral or by preparing tailored marketing materials.

Contact your local SolarEdge sales or marketing person for more information on any of SolarEdge's marketing and support services.



The best selfie with solar



Staying cool with rooftop PV



Getting power from the sun



Teamwork to take this roof solar



Taking solar to the edge



SolarEdge at home



Solar energy makes you strong



Powering the world with solar



Green fields, blue PV, and yellow sunshine

Residential Product Offering

CLICK ONE OF THE RED ICONS TO LEARN MORE ABOUT EACH PRODUCT
To view online, scan the QR code or copy the link: solaredge.ge/offering-AUS



Complete Residential PV Solution

Movie

Installer catalogue

Homeowner brochure

Single Phase Inverters with HD-Wave Technology

2.5kW-10kW

Movie

Datasheet

Three Phase Inverters

5kW-8kW

Datasheet

Power Optimisers

Panel-level optimisation
P300-P505

Datasheet

Smart Panels

P300W, with pre-assembled P370 power optimiser

Brochure

Datasheet

Monitoring Platform

Free, real-time system visibility at the panel level

Movie

StorEdge™ for On-Grid Applications

Stores unused PV power on a battery for maximised self-consumption

Movie

Brochure

StorEdge interface datasheet

AC coupled inverter datasheet

StorEdge™ with Backup Power

Maximises self-consumption and provides backup power when grid is down

Movie

Brochure

Datasheet

Smart Energy

Utilises excess PV for increased self-consumption and lower electricity bills

Movie

Smart energy hot water datasheet

Smart energy switch and relay datasheet

Performance Monitoring

Calculate site performance ratio and measure environmental conditions

Environmental sensors datasheet

Satellite-based PR brochure

Wireless Communication

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

GSM plug-in datasheet

ZigBee plug-in datasheet

Wi-Fi plug-in datasheet





Energy Meter and Current Transformers





Supports high accuracy production/consumption monitoring, and export limitation

Datasheet

SolarEdge Ordering Information

Contact your local SolarEdge distributor



Part Number	Product Description	
Single Phase Inverters with HD-Wave Technology; 12-year warranty included		
SE2500H-AU000NNU2	1ph Inverter with HD-Wave Technology, 2.5kW, (-20°C)	
SE3000H-AU000NNU2	1ph Inverter with HD-Wave Technology, 3.0kW, (-20°C)	
SE3500H-AU000NNU2	1ph Inverter with HD-Wave Technology, 3.5kW, (-20°C)	
SE4000H-AU000NNU2	1ph Inverter with HD-Wave Technology, 4.0kW, (-20°C)	
SE4600H-AU000NNU2	1ph Inverter with HD-Wave Technology, 4.6kW, (-20°C)	
SE5000H-AU000NNU2	1ph Inverter with HD-Wave Technology, 5.0kW, (-20°C)	
SE6000H-AU000NNU2	1ph Inverter with HD-Wave Technology, 6.0kW, (-20°C)	
SE8000H-AU000NNU2 NEW	1ph Inverter with HD-Wave Technology, 8.0kW, (-20°C)	
SE10000H-AU000NNU2 NEW	1ph Inverter with HD-Wave Technology, 10kW, (-20°C)	
Single Phase Inverter; 12-year warranty included		
SE7300-AU000NNU2	1ph Inverter, 7.3kW, (-20°C)	
Three Phase Inverters for Residential Installations; 12-year warranty included		
SE5K-AU00ENNU2	3ph Inverter, 5.0kW, (-20°C)	
SE7K-AU00ENNU2	3ph Inverter, 7.0kW, (-20°C)	
SE8K-AU00ENNU2	3ph Inverter, 8.0kW, (-20°C)	
StorEdge; 12-year warranty included for the inverters and 10-year warranty included for the interface		
SESTI-S2	StorEdge Interface (for self-consumption only), with LG Chem RESU 10H Battery	
SESTI-S4	StorEdge Interface for 1ph Inverters with HD-Wave Technology (for self-consumption only), with LG Chem RESU 7H and 10H Batteries	
SE5000-AUS20NNB2	StorEdge 1ph Inverter (with Backup), 5kW	
SE6000-AUS20NNB2	StorEdge 1ph Inverter (with Backup), 6kW	
SE3500H-AUSACNNN2	StorEdge AC Coupled 1ph Inverter with HD-Wave Technology, 3.68kW	
SE5000H-AUSACNNN2	StorEdge AC Coupled 1ph Inverter with HD-Wave Technology, 5.0W	
SE-1PH-STRG-K1	StorEdge Upgrade Kit for 1ph Inverter (not for 1ph Inverters with HD-Wave Technology)	
SE-3PH-STRG-K1	StorEdge Upgrade Kit for 3ph Inverter	

Part Number	Product Description	
NEW: Smart Panels; with pre-assembled power optimisers; 12-year panel warranty and 25-year performance warranty included		
SPV300-60MMJ-1WA	60-Cell, 300W Monocrystalline PERC Panel with Integrated P370 Power Optimiser	
Power Optimisers; 25-year warranty included		
P300-5RM4MRS	For 60 cells, with max Vin (@ min temp) 48V, output cable length 0.95m	
P370-5RM4MRM	For 72 cells, with max Vin (@ min temp) 60V, output cable length 0.95m	
P404-5RM4MRM	For 60/72 cells, with max Vin (@ min temp) 80V, output cable length 1.2m	
P405-5RM4MRM	For Thin Film panels, with max Vin (@ min temp) 125V, output cable length 1.2m, single input	
P405-5RMDMRM	For Thin Film panels, with max Vin (@ min temp) 125V, output cable length 1.2m, dual input	
P500-5RM4MRM	For 96 cells, with max Vin (@ min temp) 80V, output cable length 1.2m	
P505-5RM4MBM	For high current panels, with max lin 14A, with max Vin (@ min temp) 83V, output cable length 1.2m	
Frame-Mounted Power Optimisers; 25-year warranty included		
P300-5RM4MFS	For 60 cells, with max Vin (@ min temp) 48V, output cable length 0.95m	
P404-5RM4MFM	For 60/72 cells, with max Vin (@ min temp) 80V, output cable length 1.2m	
P500-5RM4MFM	For 96 cells, with max Vin (@ min temp) 80V, output cable length 1.2m	
Communication Products; 5-year warranty included		
SE1000-WIFI01	Wi-Fi Plug-in	
SE1000-ZBGW-K5	ZigBee Gateway and ZigBee Plug-in	
SE1000-ZBRPT05	ZigBee Repeater	
SE1000-ZB05-SLV	ZigBee Plug-in	
SE1000-RS485-IF	RS485 Plug-in	
SE-SIM-R12-AU-S1 SE-SIM-R12-NZ-S1	SolarEdge 12-Year Prepaid Data Plan, for residential systems in Australia (AU part number) and New Zealand (NZ part number)	
SE-SIM-R12-AU-S2 SE-SIM-R12-NZ-S2	SolarEdge 12-Year Prepaid Data Plan, for StorEdge systems in Australia (AU part number) and New Zealand (NZ part number)	
SE-1PH-GSM-K1	Communication Board and GSM Plug-In Upgrade for Single Phase Inverters (not compatible with 1ph Inverters with HD-Wave Technology)	
SE-3PH-GSM-K2	Communication Board and GSM Plug-In Upgrade for 3ph Inverters	
SE1000-GSM02	GSM Plug-in for 1ph Inverters with HD-Wave Technology	
SE-RS485-SPD2-K1	SPD Plug-in for 3ph Inverters (5 pcs)	

SolarEdge Ordering Information

Contact your local SolarEdge distributor

Part Number	Product Description	
Metering Solutions		
SE-WND-3Y400-MB-K2	1ph/3ph 230/400V, Energy Meter with Modbus Connection, DIN-Rail, CLASS 05, V2	
SE-CTML-0350-070	70A Small Split-Core Current Transformer	
SE-ACT-0750-250-C6	250A Split-Core Current Transformer	
Smart Energy; 5-year warranty included		
SEHAZB-HEAT-CONT-36	3.6kW Smart Energy Hot Water	
SEHAZB-SWITCH-MTR	Smart Energy Switch	
SEHAZB-DR-SWITCH-2	2 x Smart Energy Relay	
SE1000-ZB06-MOD *	Smart Energy ZigBee Plug-in	
* For every system using smart energy products, one smart energy ZigBee plug-in is required		
Inverter Warranty Extensions		
For single phase inverters with HD-Wave technology, purchased within 24 months of shipment date		
WE-HD1S-20	20 years, 1ph Inverter with HD-Wave Technology < 4 kW	
WE-HD1S-25	25 years, 1ph Inverter with HD-Wave Technology < 4 kW	
WE-HD1M-20	20 years, 1ph Inverter with HD-Wave Technology 4-6 kW	
WE-HD1M-25	25 years, 1ph Inverter with HD-Wave Technology 4-6 kW	
Purchased within 24 months of shipment date, up to 20 years		
WE-1S-20	20 years, 1ph Inverter < 4 kW	
WE-1M-20	20 years, 1ph Inverter 4-6 kW	
WE-1MP-20	20 years, 1ph Inverter 7.3 kW	
WE-3M-20	20 years, 3ph Inverter <10 kW	
Purchased within 24 months of shipment date, up to 25 years		
WE-1S-25	25 years, 1ph Inverter < 4 kW	
WE-1M-25	25 years, 1ph Inverter 4-6 kW	
WE-1MP-25	25 years, 1ph Inverter 7.3 kW	
WE-3M-25	25 years, 3ph Inverter <10 kW	
StorEdge Inverters, purchased within 24 months of shipment date, up to 25 years		
WE-S1S-20	20 years, StorEdge 1ph Inverter (with Backup)	
WE-S1S-25	25 years, StorEdge 1ph Inverter (with Backup)	

Part Number	Product Description	
Monitoring and Installer Tools		
Free, real-time, panel-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: https://www.solaredge.com/aus/products/pv-monitoring#/	
Free, web-based PV design tool used to plan, build and validate your SolarEdge systems from inception to installation.	For full details about the Designer, visit: https://www.solaredge.com/aus/products/installer-tools/designer#/	
Display Products		
SE6000H-AU-EMP-U	Demo 1ph Inverter with HD-Wave Technology	
SE8K-AU00E-EMP-U	Demo 3ph Inverter for Residential Installations	
SE17K-AU-EMP-U	Demo 3ph Inverter	
SESTI-S1-EMP	Demo StorEdge Interface	
SE7600A-USS-EMP	Demo StorEdge 1ph Inverter (with Backup)	

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 optimised inverter maximises 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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This document includes estimates of various parameters of the compared solar systems, including annual A/C energy production, performance ratio and shading loss based on PVsyst computer-simulated results for installations using our and competing systems. While we are not aware of any reason to believe these estimates and comparisons are materially inaccurate or misleading, they are inherently uncertain and the projected results are not guaranteed. Actual results will vary depending on a number of factors, including actual field conditions, quality of instalment and other variances from the assumptions underlying the estimates. Although care has been taken to ensure the accuracy, completeness and reliability of the estimates and comparisons presented, SolarEdge assumes no responsibility for these. MORE SPECIFICALLY, IN NO EVENT SHALL SOLAREEDGE BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR INCIDENTAL LOSSES OR DAMAGES RESULTING FROM OR ARISING OUT OF USE OF OR RELIANCE ON THE ESTIMATES AND COMPARISONS PRESENTED.

