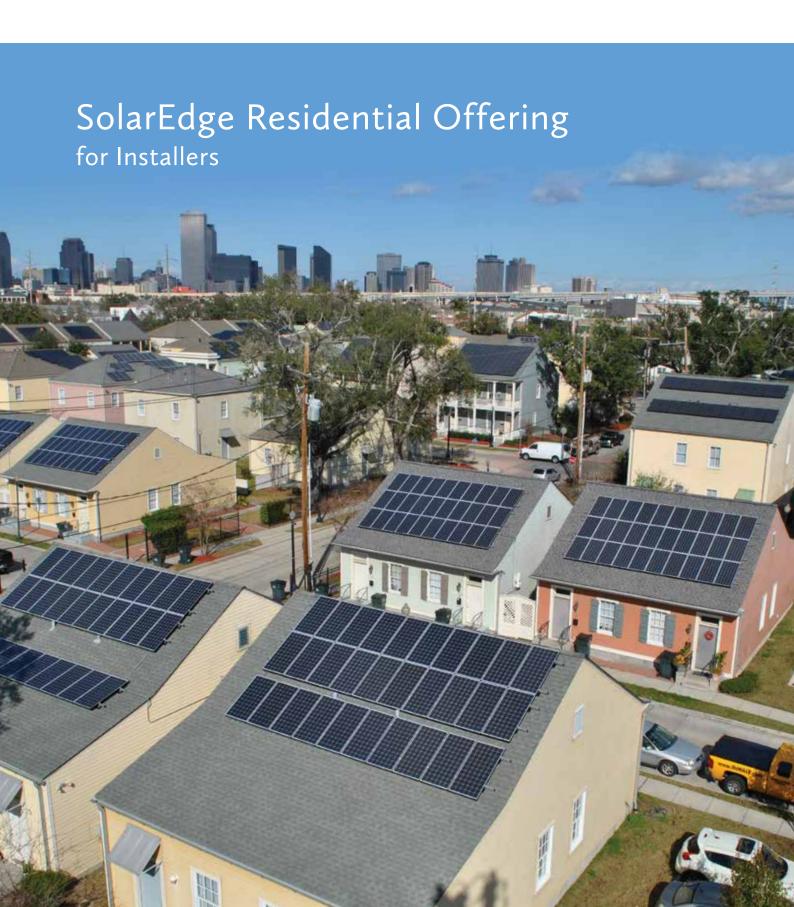
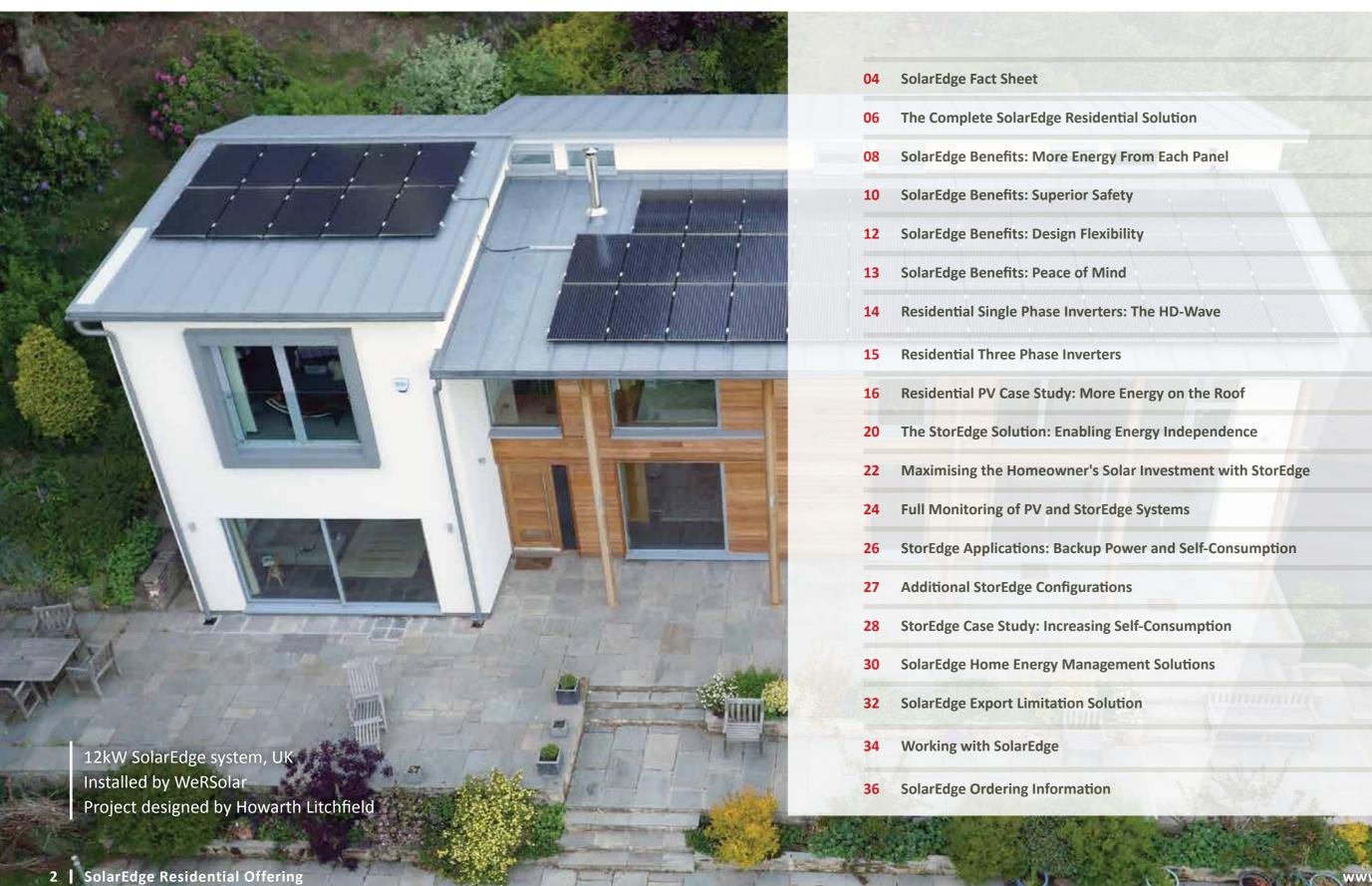


MAKING PV SYSTEMS SMARTER



Contents



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. SolarEdge provides panel-level electronics for solar power harvesting and monitoring for residential, commercial, and utility-scale solar PV installations. The SolarEdge DC optimised inverter system maximises power generation at the PV panel level while lowering the cost of energy produced by the solar PV system.

Vision

- As a leading provider of intelligent inverter solutions for the PV industry, our vision is to enable every solar panel to be individually managed by DC-DC panel-level electronics
- Our goal is to accelerate the pace toward grid parity and make clean, renewable solar energy affordable and widespread



Bankability

- SolarEdge has been audited and approved by major banks and financial institutions for projects and funds worldwide
- > Publicly traded on the NASDAQ under the SEDG symbol

Global Outreach

- > Systems installed in 120 countries
- > 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



INNOVATION GUARANTEED





Received nearly 30
 awards, from prestigious
 organisations ranging
 from Red Herring to Frost
 & Sullivan

Business Figures

- > 22,700,000 power optimisers and 950,000 inverters shipped worldwide
- Monitoring platform continuously tracks over 560,000 PV installations

Power Optimisers Shipped (Cumulative) 23 22 21 20 19 18 17 16 15 14 13 13 12 10 9 8 7 6 5 4 3 2 1 10 2013 2014 2015 2016 2017 (Calendar Years)

Corporate Social Responsibility

- > As a global leader in renewable energy solutions, SolarEdge is deeply committed to promoting a greener world
- SolarEdge is in full compliance with international standards on quality and control, ethical conduct and environmental protection







117 awarded

applications

patents and 150

additional patent

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)

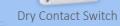
The Complete SolarEdge Residential Solution

The SolarEdge Smart Energy Management solution integrates solar energy production with battery storage and home energy management, all under the control of a single SolarEdge PV inverter. The SolarEdge DC-optimised system provides substantial benefits for both single and three phase powered homes, including more PV power, higher system visibility and advanced safety features.

Home Energy Management

Increase homeowners' solar energy usage with SolarEdge smart home devices. Utilise excess PV production to power heat pumps, electric water heaters, lighting or other typical home appliances.

Homeowners will enjoy greater convenience with automatic. on-the-go control of their smart devices via the SolarEdge mobile monitoring app.





Immersion Heater

Monitoring

SolarEdge provides free panellevel performance monitoring, remote maintenance and alerts. This enables fewer trips to sites, less time spent on site and higher system uptime. Easy access from your computer or mobile device anytime, anywhere.





Power Optimiser

Connects to each solar panel on the roof enabling them to perform independently, providing greater energy production, enhanced safety, and constant information from each panel.



The brains of the PV system, the SolarEdge inverter has a fixed input voltage and is responsible only for DC to AC conversion. Small and lightweight with 99% weighted efficiency, it's ideal for indoor or outdoor installations in both single and three phase powered homes.

Single phase

StorEdge™

Store unused PV energy directly on compatible, high power DC batteries from LG Chem to maximise energy independence, lower electricity bills and provide backup power. StorEdge is a DC-coupled solution enabling higher system efficiency.

4

Compatible with (1) LG Chem

Three phase

SolarEdge Benefits: More Energy From Each Panel



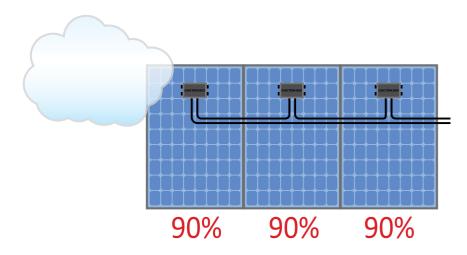
More Energy: Value for the Homeowner

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.

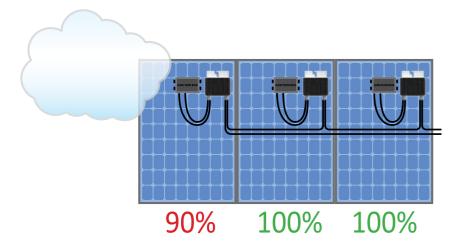
In a PV system, each panel has an individual maximum power point. Differences between panels are unavoidable in PV installations. With traditional inverters, the weakest panel reduces the performance of all panels.

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



Traditional Inverter

- > One weak panel reduces the performance of all panels in the string or is bypassed
- > Power losses occur due to panel mismatch



SolarEdge System

- Maximum power is produced and tracked from each panel individually
- > Up to 25% more energy is harvested from the PV system

POWER LOSSES CAN RESULT FROM MULTIPLE FACTORS, INCLUDING:

Manufacturing Tolerance Mismatch

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



Guaranteed power output from panel manufacturers 0~+3%

Soiling, Shading & 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.







Soiling

Bird droppings

Leaves

Uneven Panel Aging

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



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

SolarEdge Benefits: **Superior Safety**

Superior Safety: □ □ Value for the Homeowner

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.

With millions of photovoltaic (PV) systems installed around the world, this technology is designed to be relatively safe and reliable. However, as traditional PV installations can reach voltages as high as 1500VDC, precautions should be taken to ensure the safety of people and assets.

Traditional string or central inverters are limited in the safety level they offer installers, maintenance personnel and firefighters. Shutting down the inverter or the grid connection will terminate

current flow, but electrocution risk remains, since DC voltage in the string cables will stay high for as long as the sun is shining.

In addition, the possibility of electrical arcs, which can result in a fire, creates a threat to the asset on which the PV system is installed, as well as to people who live or work in the vicinity of the PV system.

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

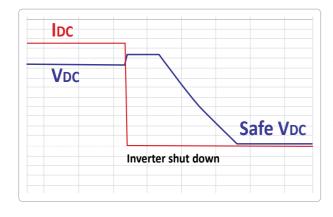
SAFEDC™

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

Panel-level shutdown is designed to occur automatically in either of these cases:

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

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

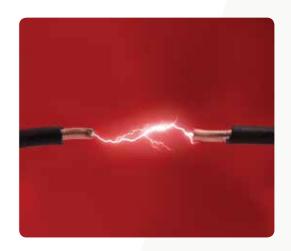


automatic string shutdown. As demonstrated, the current is power or Inverter is turned off. The string voltage is reduced to safe voltage

ARC FAULT DETECTION AND INTERRUPTION

SolarEdge inverters have a built-in protection designed to mitigate the effects of some arcing faults that may pose a risk of fire, in compliance with the UL1699B arc detection standard. The US standard, which came into effect as part of NEC2011, includes requirements for arc detection (i.e. arcs within the string) and for manual, on-site restart after an arc detection event.

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. However, in addition to manual restart, a mechanism for auto-reconnect can be enabled during system commissioning.





SolarEdge Benefits: **Design Flexibility**

Design Flexibility: Value for the Homeowner

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.

MORE POWER, MORE **REVENUE & 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.







SolarEdge Benefits: Peace of Mind

Peace of Mind: Value for the Homeowner

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.



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 cloud-based 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.

The SolarEdge monitoring platform 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.



Residential Single Phase Inverters: The HD-Wave

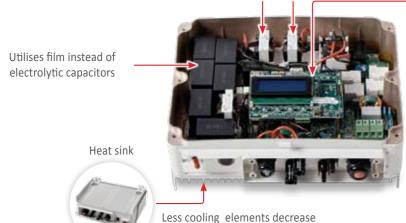
A NEW ERA FOR INVERTER TECHNOLOGY

Representing one of the most significant leaps in solar technology in the past 20 years, SolarEdge's HD-Wave inverter 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, HD-Wave technology inverters 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.







inverter size and weight

Communication board (SELV) Extremely low voltage, touch safe

Small, efficient and cost effective standard silicon switches

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 and film capacitors
- 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

Less magnetics

• Backward compatibility with existing SolarEdge systems

Residential Three Phase Inverters

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 (Wi-Fi, ZigBee Gateway, Cellular-GSM)

Residential PV Case Study: More Energy on the Roof



Inverter: 1 x three phase SE5K inverter

Power Optimisers: 23 x OPJ300-LV, Panel
Embedded Power Optimisers

Panels: 23 x SOLON Black 220/16 250Wp

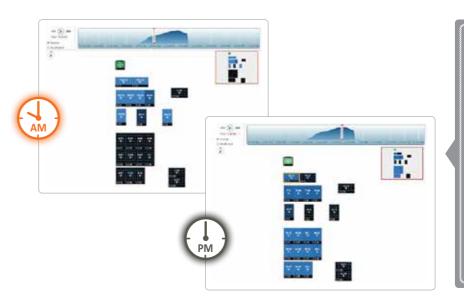
Installed by: PETALO Srl

"The SolarEdge DC optimised inverter system significantly improved the ROI of this installation. The flexibility of design allowed us to put more panels on the roof, and decreased the BoS costs by €200."

> Matteo Pirota, Owner of Titolare Petalo Srl.

Increased Energy with Panel-Level MPPT

The homeowner decided to install a PV system in order to reduce electricity costs, and to take advantage of Net Metering and a 50% government tax rebate. With a small, multi-faceted roof, it was crucial to leverage all available space while maximising energy from each panel. This meant that panels needed to be installed on multiple orientations, leading to varying MPPs. Panel-level MPP tracking performed by the SolarEdge DC optimised inverter solution allowed generation of maximum energy from every panel. Even though the panels are installed on different roof facets, each still generate energy according to its own MPP while connected in a single string.



These screenshots from the SolarEdge monitoring platform show the physical layout of the installation. These images illustrate how panels on opposing orientations perform differently throughout the day. Even though the panels are on the same string, each panel performs at its individual MPP to maximise energy harvest.

Comparing SolarEdge to a Traditional Inverter

PVsyst simulation software was used to compare the energy production of SolarEdge to a traditional inverter. According to the simulation, even with only 18 panels SolarEdge would gain an additional 6.7% yield compared to a traditional inverter, in the first year of operation.

PVsyst Simulation Results		Traditional Inverter	SolarEdge	SolarEdge Advantage
PVsyst Yield Forecast: Year 1	Annual AC Energy	3759 kWh/year	4012 kWh/year	+6.7%
	Performance Ratio		76.57%	
PVsyst Design	Inverters	1	1	
	Strings	1	1	
	Panels per Strings	18	18	

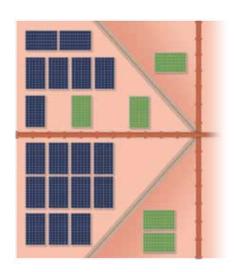
Residential Case Study: More Energy on the Roof

~30% More Panels on the Roof

The site was initially designed with a typical string inverter with 18 panels; however, this limited the number of panels that could be placed on the roof. With the SolarEdge DC optimised inverter system, the homeowner was able to benefit from five additional panels for a total of 23 panels on the roof.

The SolarEdge DC optimised inverter system enabled installation of five additional panels, represented in green.

This addition equalled 1.25 kW, or an increase in system size of 28%.



PVsyst vs. Actual Measured Data

Using production data taken from the SolarEdge monitoring platform, SolarEdge outperformed the energy prediction in the field by 5.5% in the first year of operation.

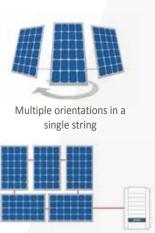


PV system energy output can be compared on a monthly, quarterly or annual basis using the SolarEdge monitoring platform

A\$200 Reduction in BoS Costs through Maximum Design Flexibility

The SolarEdge DC optimised inverter solution has a fixed input voltage which allows efficient use of all available space through unprecedented design flexibility - multiple orientations, tilts, and even panel types and sizes across two strings. This 5.75kWp system has two major opposite-facing facets with East-West orientations and an additional North-facing facet, but with SolarEdge only needs one three phase inverter with two strings totalling 23 panels. This reduction in strings decreased BoS costs by €200. An equivalent Australian installation will see BoS cost savings of approximately A\$200.

This flexibility of design also enabled the installation of vertical and horizontal panels in the same string. This allowed panels to be installed where it would be impossible with a typical string inverter.



Vertical and horizontal panels in a single string

Enhanced Maintenance and Yield Assurance

The SolarEdge DC optimised inverter solution offers lifetime free monitoring via its cloud-based monitoring platform. Performance monitoring at the panel, string, and, system level in addition to pinpointed troubleshooting and remote maintenance provide increased system uptime.



The monitoring system automatically alerted the installer to a drop in system energy production. The installer was able to remotely troubleshoot the problem and quickly order a replacement part to minimise energy loss. Without panel-level monitoring, this failure could have gone unnoticed for months and significantly decreased energy production.



The Chart view from the SolarEdge monitoring platform shows the performance of every individual panel. This screenshot shows how panels in the same string placed on different orientations perform independently of each other.

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.



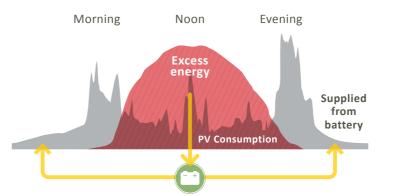
StorEdge is based on a single SolarEdge DC optimised inverter that manages and monitors PV production, consumption and storage. StorEdge is compatible with the LG Chem RESU battery.



TWO APPLICATIONS ARE AVAILABLE

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 preselected 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



Charge battery from the PV system



Daytime: Important loads are powered first by the PV system and then by the battery. The battery can be charged from the PV as needed



Nighttime: Important loads are powered by the battery





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 & 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 & 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 & battery

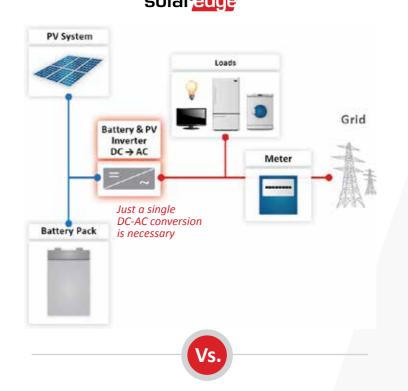


Enhanced Safety SafeDC

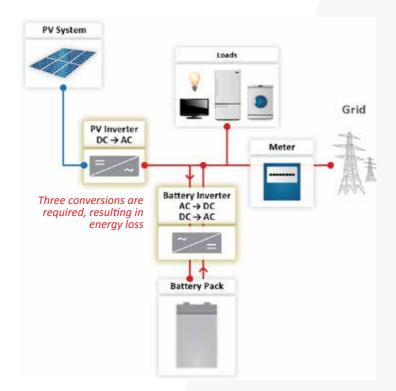


- > PV array and battery voltage reduced to a safe voltage automatically upon AC shut down when not in backup mode
- > Complies with NEC 2014 690.12 and IEC 60947

PV System with DC-Coupled Storage solaredge



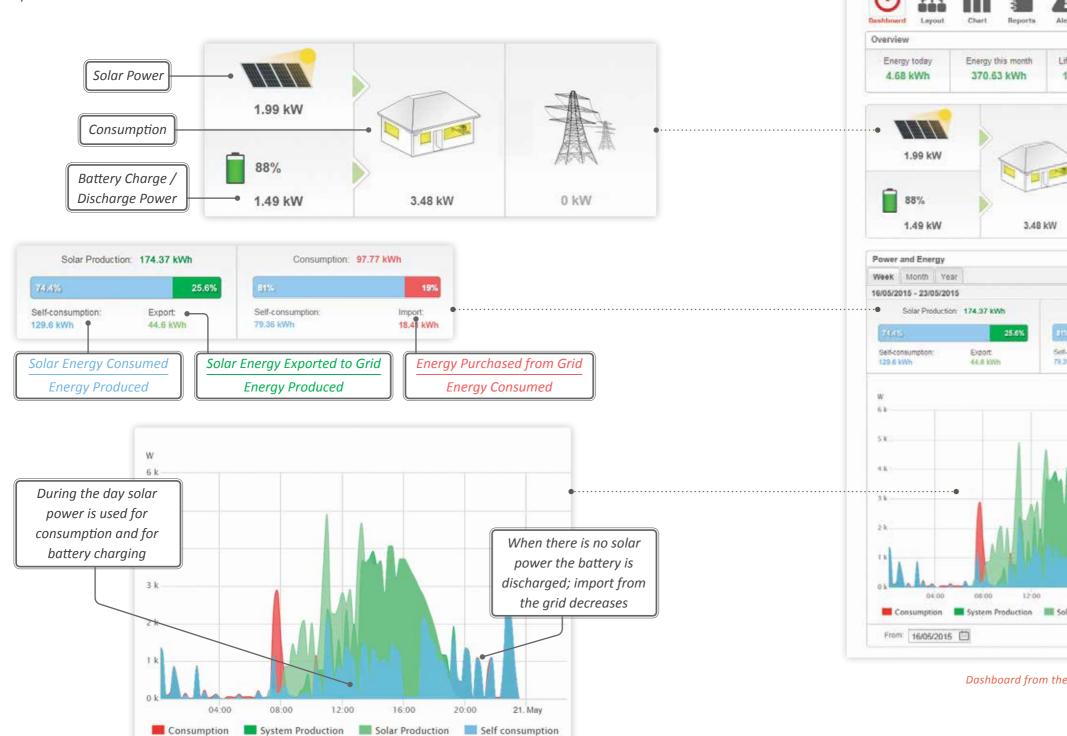
PV System with AC-Coupled Storage

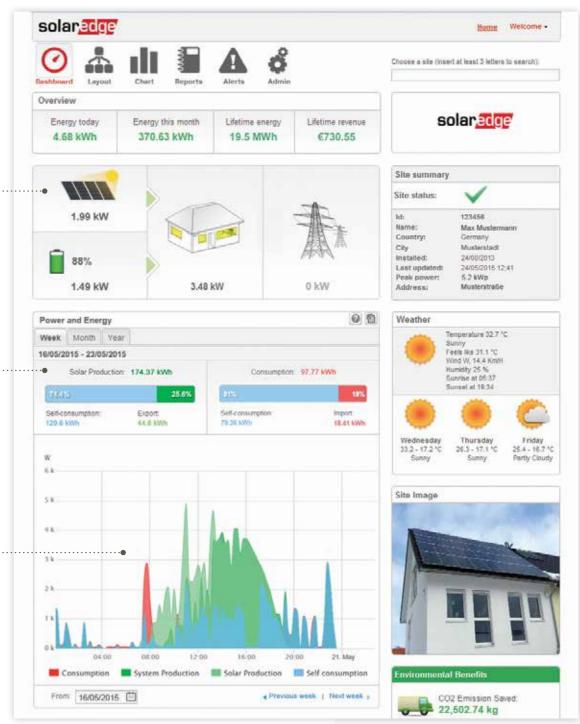


Full Monitoring of PV and StorEdge Systems

From: 16/05/2015

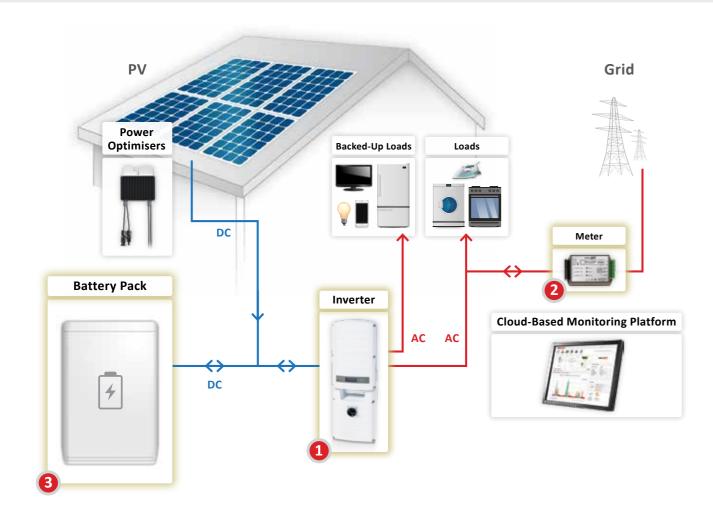
The cloud-based monitoring platform provides insight into household PV production and consumption, displaying the power flow between the PV array, battery, grid and house loads as well as tracking real-time system data.





Dashboard from the SolarEdge cloud-based monitoring platform

StorEdge Applications: Backup Power and Self-Consumption



1

SolarEdge Single Phase StorEdge Inverter

The StorEdge Inverter manages battery, system energy and backup power, in addition to its functionality as a DC-optimised PV inverter



SolarEdge Meter 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



Battery Pack

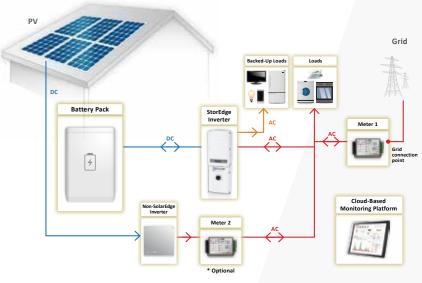
Compatible with DC coupled, high-voltage and high-efficiency batteries from LG Chem



Additional StorEdge Configurations

1 Connection to a non-SolarEdge inverter

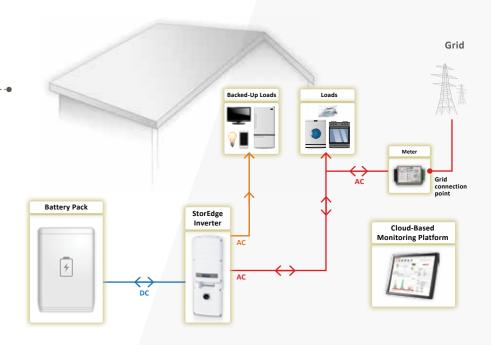
The StorEdge inverter can also be used to control the battery even on legacy PV systems installed with non-SolarEdge inverters. To upgrade existing single or three-phase legacy PV installations, connect the StorEdge inverter to the AC output of the non-SolarEdge inverter (AC-coupled). The StorEdge inverter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



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

2 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.



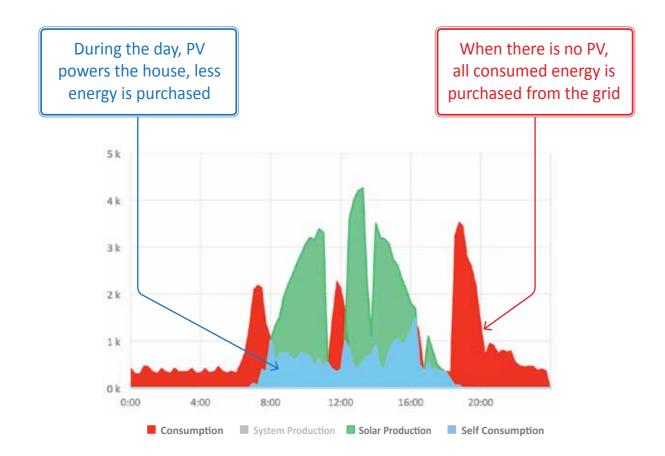
StorEdge Case Study: Increasing Self-Consumption

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)

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

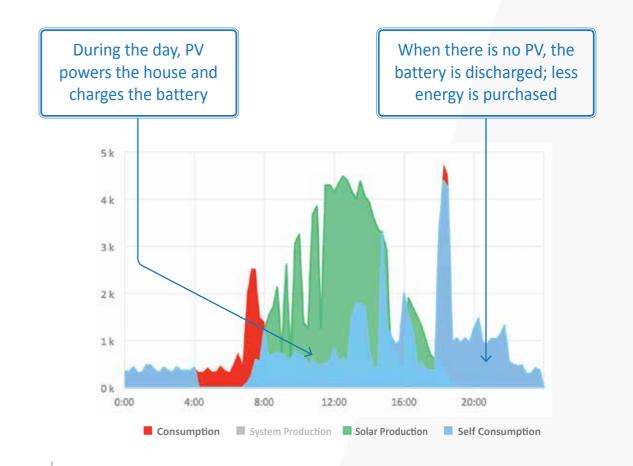


^{*}Based on a SolarEdge 5kW residential PV system

AFTER - increasing self-consumption:

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

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



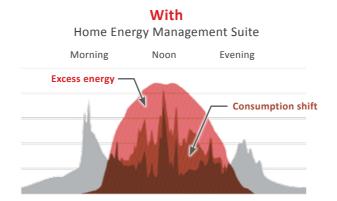


After installing StorEdge, PV self-consumption jumped from **33% to 72%**

SolarEdge Home Energy Management Solutions

Designed to automatically use the PV system's excess power to increase solar energy usage, SolarEdge's Home Energy Management products help the homeowner achieve lower electricity bills, increased energy independence, and greater convenience. The Home Energy Management suite is part of SolarEdge's Smart Energy Management solution, combining solar energy, storage management and home energy management under the control of a single SolarEdge inverter.

Without Home Energy Management Suite Morning Noon Evening Excess energy



Home Energy Management Applications



Immersion Heater Controller

ZigBee wireless controller automatically diverting excess PV energy to the electric water heater, providing hot water and highly cost-effective energy storage



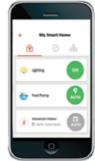
Dry Contact Switch

ZigBee wireless switch 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.





Home Energy Management dashboard

Set water heater schedule

Homeowner Benefits for Using Home Energy Management



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

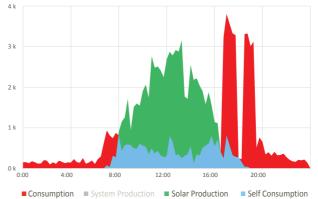
Simple and intuitive user interface to monitor system performance and remotely control devices

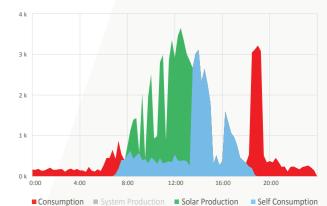
The Added Value of the Immersion Heater Controller

A typical UK home with a 4kW PV system and immersion heater, before and after installation of the SolarEdge Immersion Heater Controller*

4kW System Before Immersion Heater Controller installation				
Total produced energy	Total consumed energy	Self-consumed energy	Total purchased energy	Electricity bill saving
17.90 kWh	15.37 kWh	5.07kWh	10.30 kWh	33%







^{*} Reduces electricity (or gas) consumption for water heating

SolarEdge 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.

The SolarEdge Smart Energy Management solution 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

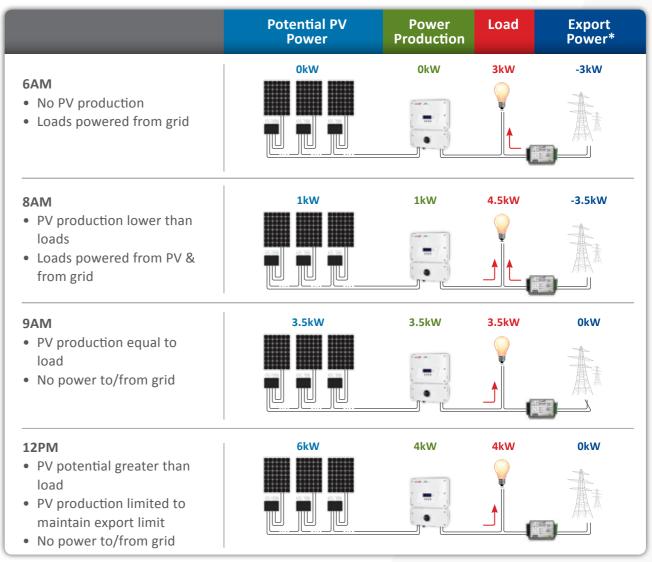
Meter Support

- 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



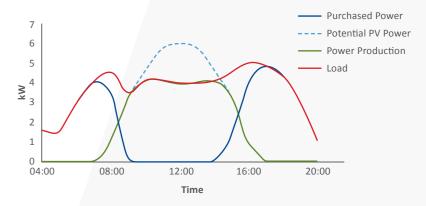
Export Limitation Operation Example

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:

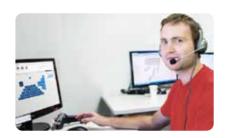


Working with SolarEdge

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



SolarEdge offers comprehensive pre and post-sale technical services including technical documentation and personal projectbased 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 open an Alliance case or send an email to: alliance@solaredge.com.





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

SolarEdge Ordering Information

Contact your local SolarEdge distributor

Part Number	Product Description	
Single Phase HD-Wave I	nverters; 12-year warranty included	
SE2500H-AU000NNU2	HD-Wave Inverter 1ph, 2.5kW, (-20°C)	Forest up F
SE3000H-AU000NNU2	HD-Wave Inverter 1ph, 3.0kW, (-20°C)	· / == 7 ·
SE3500H-AU000NNU2	HD-Wave Inverter 1ph, 3.5kW, (-20°C)	
SE4000H-AU000NNU2	HD-Wave Inverter 1ph, 4.0kW, (-20°C)	. •
SE4600H-AU000NNU2	HD-Wave Inverter 1ph, 4.6kW, (-20°C)	*
SE5000H-AU000NNU2	HD-Wave Inverter 1ph, 5.0kW, (-20°C)	
SE6000H-AU000NNU2	HD-Wave Inverter 1ph, 6.0kW, (-20°C)	
SE8000H-AU000NNU2 NEW	HD-Wave Inverter 1ph, 8.0kW, (-20°C)	
SE10000H-AU000NNU2 COMING SOON	HD-Wave Inverter 1ph, 10kW, (-20°C)	
Single Phase Inverters;	12-year warranty included	•
SE7300-AU000NNU2	Inverter 1ph, 7.3kW, (-20°C)	•
► NEW: Three Phase Resider	ntial Inverters; 12-year warranty included	
SE5K-AU00ENNU2	Inverter 3ph, 5.0kW, (-20°C)	
SE7K-AU00ENNU2	Inverter 3ph, 7.0kW, (-20°C)	
SE8K-AU00ENNU2	Inverter 3ph, 8.0kW, (-20°C)	
► StorEdge; 112-year warran the interface	ty included for the inverters and 10-year warranty included for	
SESTI-S2	StorEdge Interface for Higher Power Output (for self-consumption only)	
SESTI-S4	StorEdge Interface for HD-Wave Inverters (for self-consumption only)	
SE5000-AUS20NNB2	StorEdge Inverter (with Backup) for Higher Power Output, 1ph, 5kW	
SE6000-AUS20NNB2	StorEdge Inverter (with Backup) for Higher Power Output, 1ph, 6kW	
SE3500H-AUSACNNN2	HD-Wave StorEdge AC Coupled Inverter, 1ph, 3.68kW	
	LID Maria Charfida AC Carrial di Inventor Anti-F Olivi	
SE5000H-AUSACNNN2	HD-Wave StorEdge AC Coupled Inverter, 1ph, 5.0kW	
SE5000H-AUSACNNN2 SE-1PH-STRG-K1	StorEdge Upgrade Kit for 1ph Inverter (not for HD-Wave inverters)	•

Part Number	Product Description	
► Power Optimisers; 25-yea	r 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	TX
P500-5RM4MRM	For 96 cells, with max Vin (@ min temp) 80V, output cable length 1.2m	a, hā
P505-5RM4MBM NEW	For high current panels, with max lin 14A, with max Vin (@ min temp) 83V, output cable length 1.2m	
► Frame-Mounted Power O	ptimisers ; 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-ZBGW-K5	SolarEdge Home Gateway + Slave Kit	
SE1000-ZBRPT05	SolarEdge ZigBee Repeater (range extender)	40-
SE1000-ZB05-SLV	ZigBee Inverter Slave Kit	
SE1000-RS485-IF	RS485 Expansion Kit	
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	GSM Upgrade Kit for Single Phase Inverters (not compatible with HD-Wave inverters)	100
SE-3PH-GSM-K2	GSM Upgrade Kit for Three Phase Inverters	Acres 1
SE1000-GSM02	Cellular GSM Kit (for HD-Wave inverters with a GSM connector)	
SE-RS485-SPD2-K1	SolarEdge RS485 Surge Protection Kit (5 pcs), for three phase inverters only	100
SE1000-WIFI01	SolarEdge Wi-Fi Card Kit	
SE1000-CCG-G	SolarEdge Control and Communication Gateway	

SolarEdge Ordering Information

Contact your local SolarEdge distributor

Part Number	Product Description	
► Metering Solutions		以(重要4)
SE-WND-3Y400-MB-K2	1Ph/3Ph 230/400V Elect. Meter W/ RS485, DIN-rail	
SE-CTML-0350-070 NEW	70A Small Split-Core Current Transformer	
SE-ACT-0750-250-C6	250A Split-Core Current Transformer	
► Home Energy Management;	5-year warranty included	•
SEHAZB-HEAT-CONT-36	3.6kW Immersion Heater Controller	(**)))
SEHAZB-SWITCH-MTR	AC Switch with Meter	
SEHAZB-DR-SWITCH-2	2 x Dry Contact Switch	1
SE1000-ZB06-MOD *	Home Energy Management ZigBee Card	
* For every system using Home Energ required	y Management products, one Home Energy Management ZigBee Card is	
► Inverter Warranty Extensions	5	
For HD-Wave inverters, purch	ased within 24 months of shipment date	
WE-HD1S-20	20 years, HD-Wave 1ph inverter < 4 kW	D-Wave
WE-HD1S-25	25 years, HD-Wave 1ph inverter < 4 kW	12-25 Vears Warranty
WE-HD1M-20	20 years, HD-Wave 1ph inverter 4-6 kW	STEM. CH
WE-HD1M-25	25 years, HD-Wave 1ph inverter 4-6 kW	
Purchased within 24 months	of shipment date, up to 20 years	
WE-1S-20	20 years, 1ph inverter < 4 kW	verter.
WE-1M-20	20 years, 1ph inverter 4-6 kW	12-20 Warranty
WE-1MP-20	20 years, 1ph inverter 7.3 kW	A. 13119 M.
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	averter
WE-1M-25	25 years, 1ph inverter 4-6 kW	Vears Warranty
WE-1MP-25	25 years, 1ph inverter 7.3 kW	7. 19112 kg
WE-3M-25	25 years, 3ph inverter <10 kW	
StorEdge Inverters, purchased	within 24 months of shipment date, up to 25 years	STOLEGO
WE-S1S-20	20 years, StorEdge Inverter (with Backup), 1ph	Years Warranty
WE-S1S-25	25 years, StorEdge Inverter (with Backup), 1ph	18 P 3 10 15

Part Number	Product Description	
► Cloud-Based Monitoring Services		
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 SolarEdge monitoring platform visit: http://www.solaredge.com/products/pv-monitoring#/	Four and a second secon
▶ Display Products		
SE6000H-AU-EMP-U	Demo 1ph HD-Wave inverter	F singer J-D
SE8K-AU00E-EMP-U	Demo 3ph residential inverter	[L 7]
SE17K-AU-EMP-U	Demo 3ph inverter	
SESTI-S1-EMP	Demo StorEdge Interface	·
SE7600A-USS-EMP	Demo StorEdge Inverter (with Backup)	



SolarEdge invented an intelligent inverter that has changed the way power is harvested and managed in PV systems. The SolarEdge DC optimised inverter maximises power generation at the individual PV panel-level while lowering the cost of energy produced by the PV system.

Addressing a broad range of solar market segments, from residential to commercial and large-scale solar, the SolarEdge DC optimised inverter solution includes PV inverters, power optimisers, and cloud-based monitoring. By connecting power optimisers to each panel, the system enables superior power harvesting and panel management. System costs remain competitive by centralising the DC-AC inversion and grid interaction at a simplified PV inverter. Enhanced PV asset management including reduced O&M costs are enabled through panel-level monitoring and remote troubleshooting. Another benefit is the automatic DC shutdown, for installer, maintenance personnel, and firefighter safety, through the SafeDC™ mechanism.









www.solaredge.com

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