ENGLISH

PV GRID CONNECTED

Taking control for you.

Steca

STRONG SOLUTIONS POWERFUL PARTNERS

CONTENT

Innovative
ELECTRONICS COMPANY

Having posted sustained growth as an innovated electronic company, we pool many years of experience and innovative strength both as a manufacturer of Steca-branded product lines in solar electronics and as an electronics service provider.

Nowadays, we are highly diversified as an electronics service provider and supply our partners around the globe. We carry out our production operations on an area measuring over 29,000 square metres with more than 750 employees. Our plant at the Memmingen site and a plant in Bulgaria ensure your product's success.

As part of the PRIMEPULSE Group, Steca has an international network and a firm foundation for strategic growth.

Steca

PV GRID CONNECTED

COOLCEPT
Cool, long-living, efficient

The product family can be divided into single-phase coolcept inverters and three-phase coolcept³ inverters. Both types of inverter are based on the tried-and-tested coolcept topology.

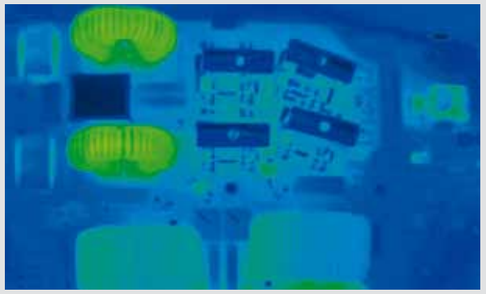
What is coolcept?
coolcept is Steca's new inverter topology that provides the highest peak efficiency. It is basically characterised by circuit simplicity combined with highest efficiency. The patented coolcept topology is a global innovation that is only available from Steca.

The advantages of coolcept
coolcept is cool.
High peak efficiency means the lowest possible heat dissipation. This makes cooling elements unnecessary.

coolcept is efficient.
Stable peak efficiency over the entire power range ensures maximum yields.

coolcept is long-living.
Low heat dissipation and cool components guarantee a long service life.

WORLD RECORD



Highest efficiency at all input voltages
The peak efficiency is only very slightly dependent on the module input voltage. This allows a free choice of the number and type of modules, without risking a loss of yields.

A completely new cooling concept
This is only possible through the top efficiency of the coolcept inverters! The requirements – low-cost and high-efficiency – are fully satisfied!

Inverters with "coolcept":
This high-end technology is integrated in Steca's series devices with a rated output of between 1.5 kW and 6.0 kW, which achieve a peak effectiveness of 98.6%.

COOLCEPT FLEX
Reliable technology – even more versatile

With coolcept fleX Steca introduces the successor generation to the established coolcept-topology. Coolcept fleX offers a creative energy concept for any modern home.

What is coolcept fleX?
The brand-new electronic platform is being used as the technological heart of the next generation of solar electronics and connects photovoltaics-based power generation, load management, and even e-mobility for the first time ever. The coolcept fleX platform is open with regard to its future use, it is still implemented on a single board. This extremely small and compact format permits the use of affordable standard components on the circuit board. Thus making it possible to use the same device for various differing applications.

coolcept fleX inverter
Coolcept fleX is the centerpiece of the new inverter generation. As usual, with nominal powers of 1.5 – 3.6 kW, they attain particularly high peak efficiencies.

The advantages of coolcept flex inverters
coolcept fleX is flexible.
Multiple MPP trackers allow handling simple or even complicated module fields.

coolcept fleX is tough und uncomplicated.
Indoor and outdoor installation is enabled by a robust IP65-casing. However, the product line is not only one of the lightest in its class, but is also very easy to install too.

coolcept fleX is future-proof.
Steca is offering an integrated, future-proof concept for energy generation, consumption, storage and feeding for the modern home of tomorrow.

WORLD FIRST
One for all

This incomparably affordable all-in one solution offers functions for very different applications and is even scalable in relation to the power requirement. Whether you need one or more MPP trackers, high-voltage or low-voltage storage, or a solution with or without an emergency power supply – everything is possible. Steca has already thought of and prepared for charging an electric vehicle straight from a PV generator. The new components and setting options enable the use in many countries.

Maximum efficiencies at all input voltages and reliable cooling concept
The maximum efficiencies of the state-of-the-art power electronics topology ensure minimal losses, thus guaranteeing a very long service life thanks to extremely low levels of self-heating.

COOLCEPT FLEX XL
Simply flexible, powerful and efficient

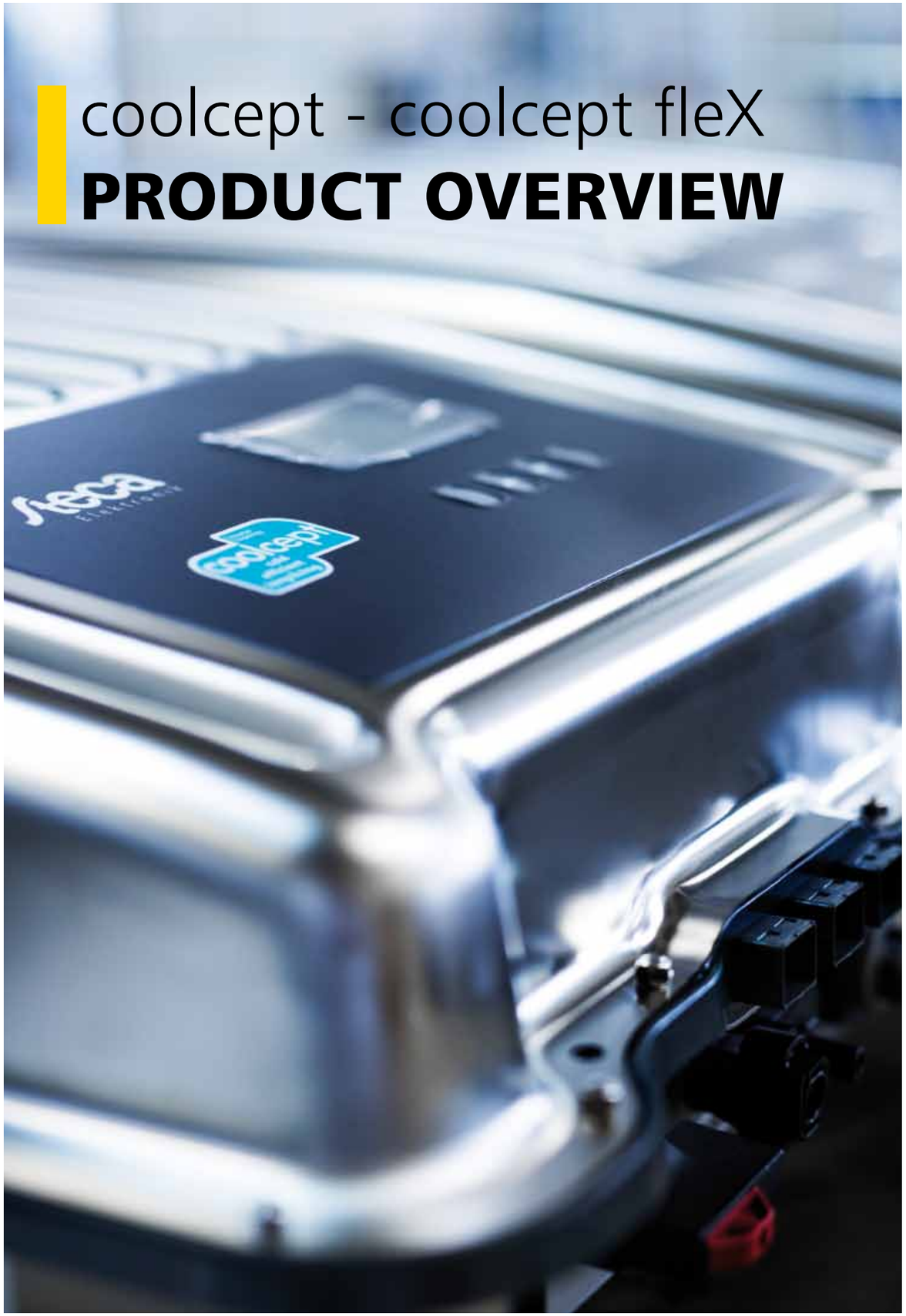
Thanks to its broad input voltage range and different power classes, the coolcept fleX XL is suited for almost all forms of equipment. The coolcept fleX XL provides a product range of 4.2 – 10 kW and contains two MPP trackers. This broad voltage and current range thus makes all arrangements easily possible. Maximum yields can be achieved as a result using innovative shadow management.
Through the high flexibility of the coolcept fleX XL almost any photovoltaics system can be fitted with this Steca inverter.

Simply more communicative
The large number of communication interfaces renders further components for monitoring unnecessary. In addition, the coolcept fleX XL supports the advanced technologies which are found in the smart home area.

- Display, data logger, system monitoring, network and control response interfaces are integrated as standard
- Local and mobile system monitoring via PC, smartphone or tablet
- Free-of-charge solar portal – Steca sunCloud – for monitoring of the PV system
- Commissioning, configuration and display of graphically arranged yield data directly via the inverter display
- Connection of an external energy meter as an option
- EEBus and Sunspec for smart home integration

Simply more comfortable
The design of the coolcept fleX XL was conceived with comfortable, safe installation and operation in mind.

- Ergonomic grip rails for easy handling
- Front-fitted, robust circuit breaker with an easy-to-read switching status
- Safe installation due to a clear, separate terminal compartment and protected power electronics
- Tool-free installation of the PV plug thanks to Phoenix SUNCLIX



coolcept - coolcept fleX
PRODUCT OVERVIEW

PRODUCT OVERVIEW

Product family name	**coolcept**	**coolcept-x**	**coolcept³**	**coolcept³-x**	**coolcept fleX**	**coolcept fleX XL**
Inverter types	StecaGrid 1500 StecaGrid 2000 StecaGrid 2500 StecaGrid 3010 StecaGrid 3600 StecaGrid 4200	StecaGrid 1500x StecaGrid 2000x StecaGrid 2500x StecaGrid 3010x StecaGrid 3600x StecaGrid 4200x	StecaGrid 3203 StecaGrid 4003 StecaGrid 5003 StecaGrid 6003	StecaGrid 3203x StecaGrid 4003x StecaGrid 5003x StecaGrid 5503x	StecaGrid 1511 StecaGrid 2011 StecaGrid 2511 StecaGrid 3011 StecaGrid 3611	StecaGrid 4213 StecaGrid 5513 StecaGrid 7013 StecaGrid 8513 StecaGrid 10013
1 or 3-phase grid feeding	1-phase	1-phase	3-phase	3-phase	1-phase	3-phase
For use in 120 V grids	■ (can feed into two or three-phase 120 V grids)				■ (can feed into two or three-phase 120 V grids)	
Suitability for indoor or outdoor use	indoor (IP 21)	outdoor (IP 65)	indoor (IP 21)	outdoor (IP 65)	indoor and outdoor (IP 65)	indoor and outdoor (IP 65)
DC connection	Phoenix Contact SUNCLIX (1 pair)	Phoenix Contact SUNCLIX (1 pair)	Phoenix Contact SUNCLIX (2 pair)	Phoenix Contact SUNCLIX (1 pair)	Phoenix Contact SUNCLIX (2 pair)	Phoenix Contact SUNCLIX (2 pair)
Ethernet interface	■	■	■	■	■	■
MPP-Tracker	1	1	1	1	2	2
Bi-directional battery connection					■	■

Understanding the name

Based on the same innovative coolcept topology, all single-phase and three-phase coolcept inverters are extraordinarily cool, efficient and durable. In addition, all devices are extremely lightweight and quiet. Nevertheless there are differences for planners and users. The name of the product family and inverter type provides an initial insight here.

The following information can be gleaned from the name alone: type of feeding (single-phase or three-phase), protection class (IP 21, IP 54 or IP 65) and power class (1.5 - 6.0 kW). The names are decrypted precisely in the illustration on the right.

coolcept³-x
StecaGrid 3203x

The first two figures in the type designation indicate the relevant performance class. In this case: 3.2 kW.

Whether the devices are single-phase or three-phase can be discerned in the family name from the superscript 3 and in the type name by the ending „3“. Single-phase devices have the ending „1“ in the type name. (Does not apply to Coolcept and Coolcept-X.).

The additional x in the product family and type name indicates that these coolcept devices are also designed for outdoor use. They conform to protection class IP 65. All types without this x are ideal for use indoors (IP 21).

Steca

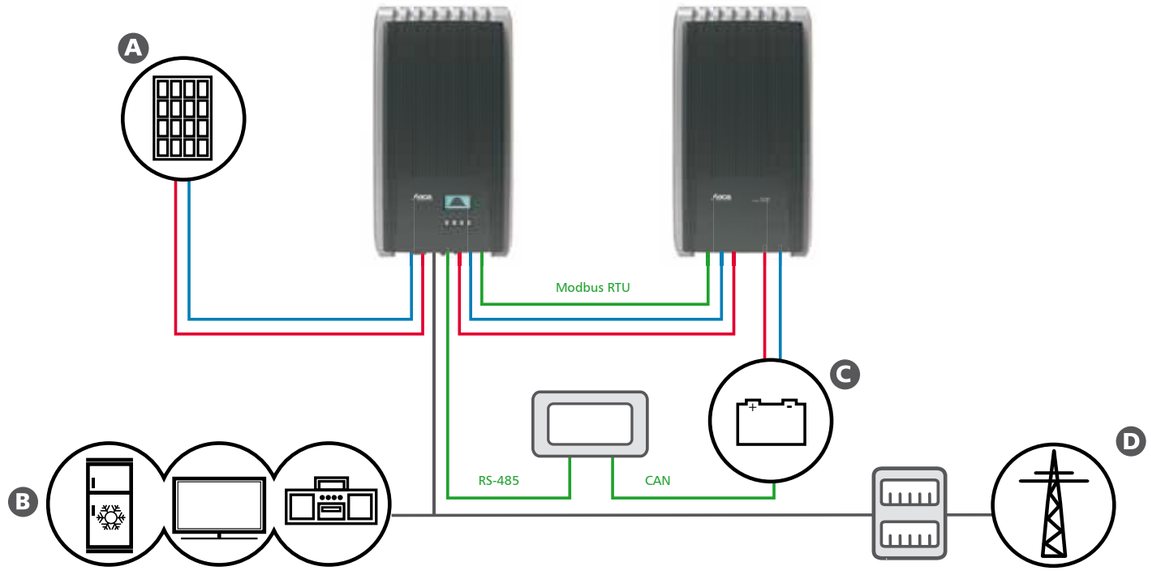
STORAGE SYSTEMS

STORAGE SYSTEMS
Full speed ahead

Optimising self-consumption
Battery storage solutions for use with photovoltaics systems are becoming increasingly important. The use of a storage system maximises self-consumption, provides protection against rising electricity prices and makes users independent.

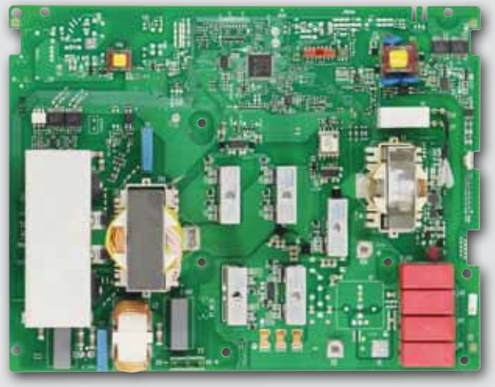
Ready for the future
The innovative technology, maximum efficiency levels and outstanding quality of Steca's power electronics guarantee future-proof storage solutions.

STECA Quality



Key: Illustration for exemplary purposes

A Solar modules
B Electrical load
C Battery
D Public grid



Power electronics for modern home storage systems
Steca develops and produces electronic assemblies for flexible use in various storage systems.

Steca

ENERGY MANAGEMENT & SYSTEM MONITORING

ENERGY MANAGEMENT

Convenient feed-in management for systems with one inverter

The inverters in the coolcept and coolcept³ family all have a Modbus-RTU interface which receives a Modbus energy meter.

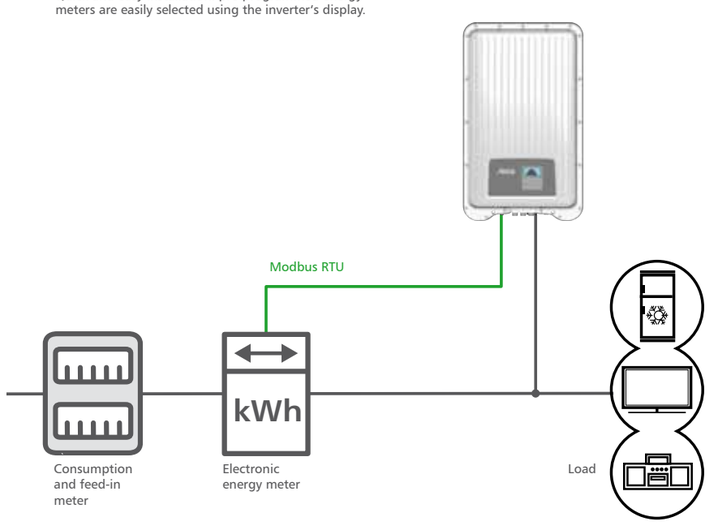
The feeding power can be limited or completely stopped as required. The maximum power to be fed into the gird can be conveniently set in Watt on the inverter display. This makes it easy to meet the 70 % limit, for instance. Thanks to communication via Modbus RTU, the control response is very fast.

Several preprogrammed energy meters allow for swift and easy installation: users simply choose the respective energy meter type on the inverter.

The coolcept inverters thus provide a very simple and cost-effective feed-in management solution which does not require any further accessories.

This solution has been optimised for systems with inverters. Where more than one inverter is used per system, or further functions are required, the StecaGrid SEM (Smart Energy Manager) is used.

Quick and easy installation: pre-programmed energy meters are easily selected using the inverter's display.



STECA Quality

SEM stands for Smart Energy Manager

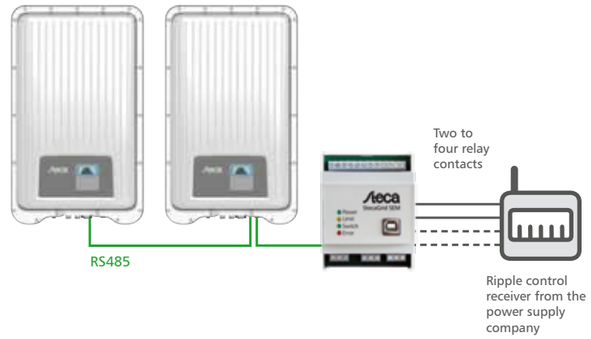
The energy manager stands out for its very easy installation and accessible service interface.

StecaGrid SEM can be installed on a top-hat rail in the switching cabinet right next to the ripple control receiver. Direct power supply at 230 V. A mains adapter plug or an external direct current power supply are not required.

All connected StecaGrid inverters can be accessed via a USB interface on the StecaGrid SEM. Connection to a PC via the supplied USB cable.The interface is on the front side of the casing – the cover does not need to be removed in the switching cabinet.

Feed-in management for systems with several inverters

The StecaGrid SEM offers different options of realising feed-in management with a photovoltaic system. A ripple control receiver from the relevant distribution grid operator can be connected. The feed output at the grid connection point can be limited to an adjustable value, or the ripple control signal can be switched to the relay output. Up to ten inverters can be connected to the StecaGrid SEM via the RS 485 interface.

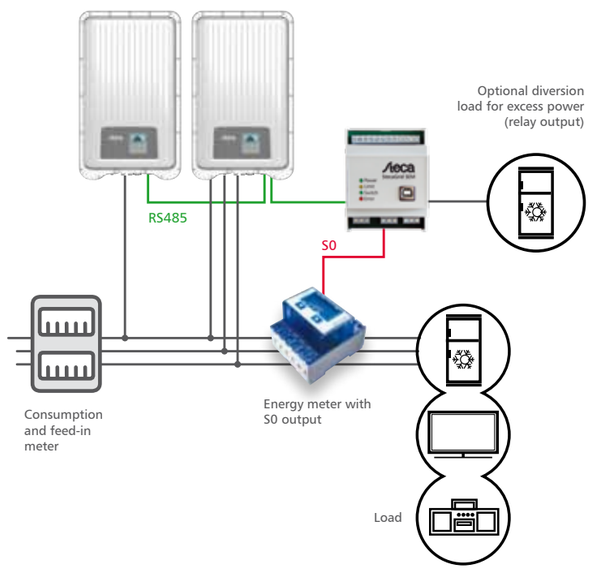


Forwarding of ripple control signal

In compliance with national regulations, photovoltaic systems may have to include a form of feed-in management. To this end, ripple control receivers of the respective grid operators are installed. These ripple control receivers transmit a reduction signal from the grid operator whenever the system has to be throttled due to grid overloads.

StecaGrid SEM is the easiest way to connect your StecaGrid inverter to the ripple control receiver. StecaGrid SEM evaluates the relay outputs of the ripple control receiver and transmits the signals via the Steca solar bus (or Steca RS485 bus) to the connected inverters.

With the StecaGrid User software, the function of the individual relay outputs of the ripple control receiver can be freely configured. In this way, all ripple control receivers with two to four outputs can be used.



Dynamic feed limitation

Data can be read from an energy meter via an S0 interface. This allows for a distinction between the share of PV energy used at home and that fed into the grid. With this measurement data, StecaGrid SEM monitors the house connection and ensures that no more than a specified output is fed into the grid. If required, it accurately reduces the output of the connected inverters.

Benefit for system operators: energy consumed at home is not included in the limitation. The limit may be changed as required via the StecaGrid User software and the USB interface on the StecaGrid SEM. For example, the 70 % limitation or the standards set by the KfW funding programme for storage systems are fulfilled. In general, feeding into the public grid can also be prevented by setting the specified value to 0 W.

The StecaGrid SEM can connect a load via a relay. The switch-on value for the load can be specified as required. The parameters for switching the relay, and therefore also the load, on and off can also be set as needed.

SYSTEM MONITORING

Continuous system monitoring is recommended, or even essential, for obtaining the absolute maximum performance from your solar energy system at all times. Steca offers you a number of different system monitoring methods:
local visualisation, remote querying or remote monitoring.

Local visualisation is sufficient when the operator regularly checks the data on the display unit of the inverter or via a connected PC or Laptop.

Remote system querying is more convenient. The internal data logger can display all system data via the HTML user interface. With the Steca sunCloud system data can be accessed online from anywhere. The data logger sends the system data to an external database. The operator can then log in to this database and not only analyse his or her data but can also compare the data with regional irradiance values. This thus provides the operator with an objective impression of the effectiveness of his or her PV system.

The most professional method is remote monitoring via an external data logger: The data logger monitors the functions of the system components and reports faults. Beyond this it stores all relevant system data.

Local data logging

☑ Local visualisation

StecaGrid Webserver
Browser-based user interface

☑ Local visualisation
☑ Remote querying

Steca sunCloud
web portal

☑ Remote querying

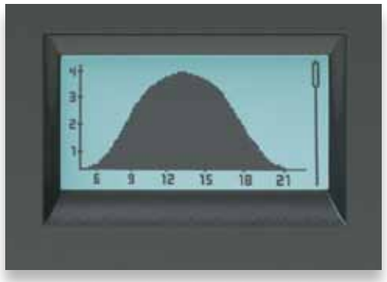
External data loggers

☑ Local visualisation
☑ Remote querying
☑ Remote monitoring

SYSTEM MONITORING
Local

Data logging on-site
Visualisation of the yield data

The inverters of the coolcept family have a graphical LCD display for visualising the energy yield values, current performance and operating parameters of the system. Their innovative menu allows individual selection of the various measurements.
The guided, pre-programmed menu allows easy final commissioning of the device.



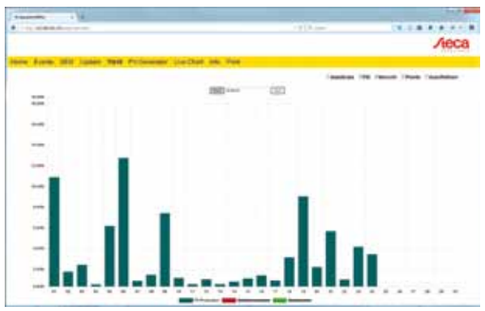
Energy yield values are displayed on the inverter's LCD.

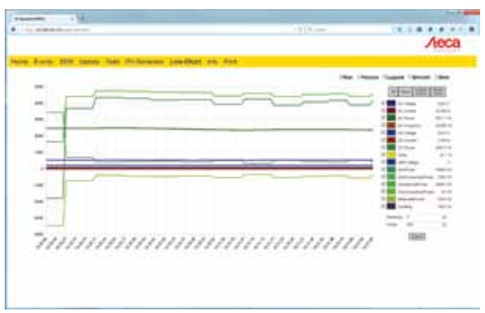
The inverter display shows the system's current performance and operating parameters.

StecaGrid Webserver

Web browser-based user interface
coolcept inverters feature an integrated Ethernet interface. It can be used for free and convenient system monitoring.

Optimised usability
coolcept inverters can be easily connected to the home network with a standard RJ45 network cable to permit inverter operation and data retrieval through a PC, including the display of yield information and any error messages.
The firmware can also be updated very easily using the Ethernet interface.





SYSTEM MONITORING

Free web portal for system monitoring

Steca sunCloud

Everything under control

Plug and Play

When the Ethernet interface of the coolcept inverter is connected to a router, the data from the data logger of the inverter is sent directly to the Steca sunCloud. Setting up the portal is easy: On steca.powerdoo.com you will find an intuitive registration form. When the inverters are registered, the serial numbers of the installed devices are queried. Several inverters can be combined in the Steca sunCloud to one system. The data of the individual devices are accumulated and displayed as a complete system.

Permanently free use

For our end customers the use of the Steca sunCloud is permanently available free of charge.

Clear presentation of yield data

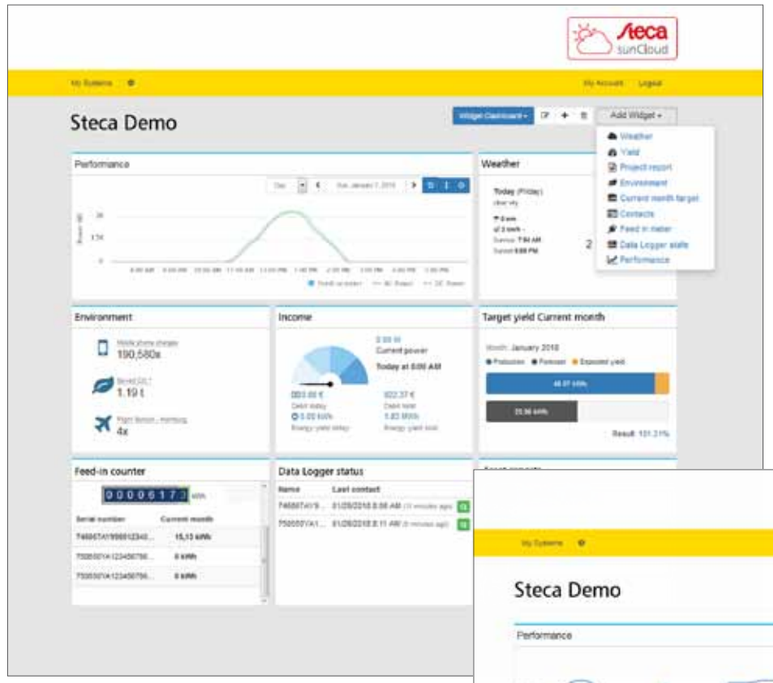
The graphical user interface is very clearly structured. The user can look forward to thoughtful, very user-friendly aspects. The operation is simple and very intuitive, as the measured values are graphically intelligent and well understandable. The user can decide for himself which information he or she will be presented as and in what size. These include, for example, AC and DC power, as well as the income generated.

User-friendly mobile use

Monitor the output of your PV system for free with the Steca sunCloud. With the intuitive user interface, you can access your yield data anywhere and at any time. The new Steca sunCloud can also be conveniently operated via smartphone or tablet.

Log in - view earnings data - change your personal settings

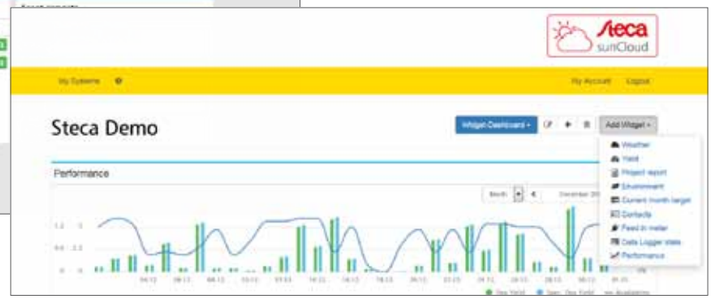
You can see the yield data of your system in the Steca sunCloud. After logging in, it is also possible to change your personal settings at any time.



FREE WEB PORTAL

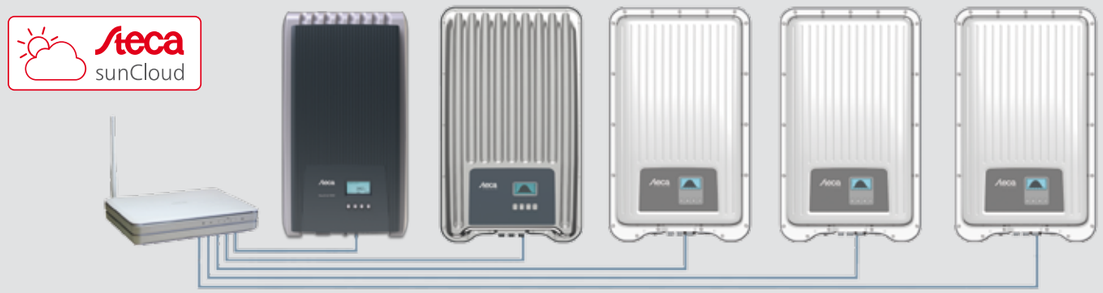
Examples of Steca sunCloud user interface

The yields of the selected photovoltaic system can be presented individually and in various ways.

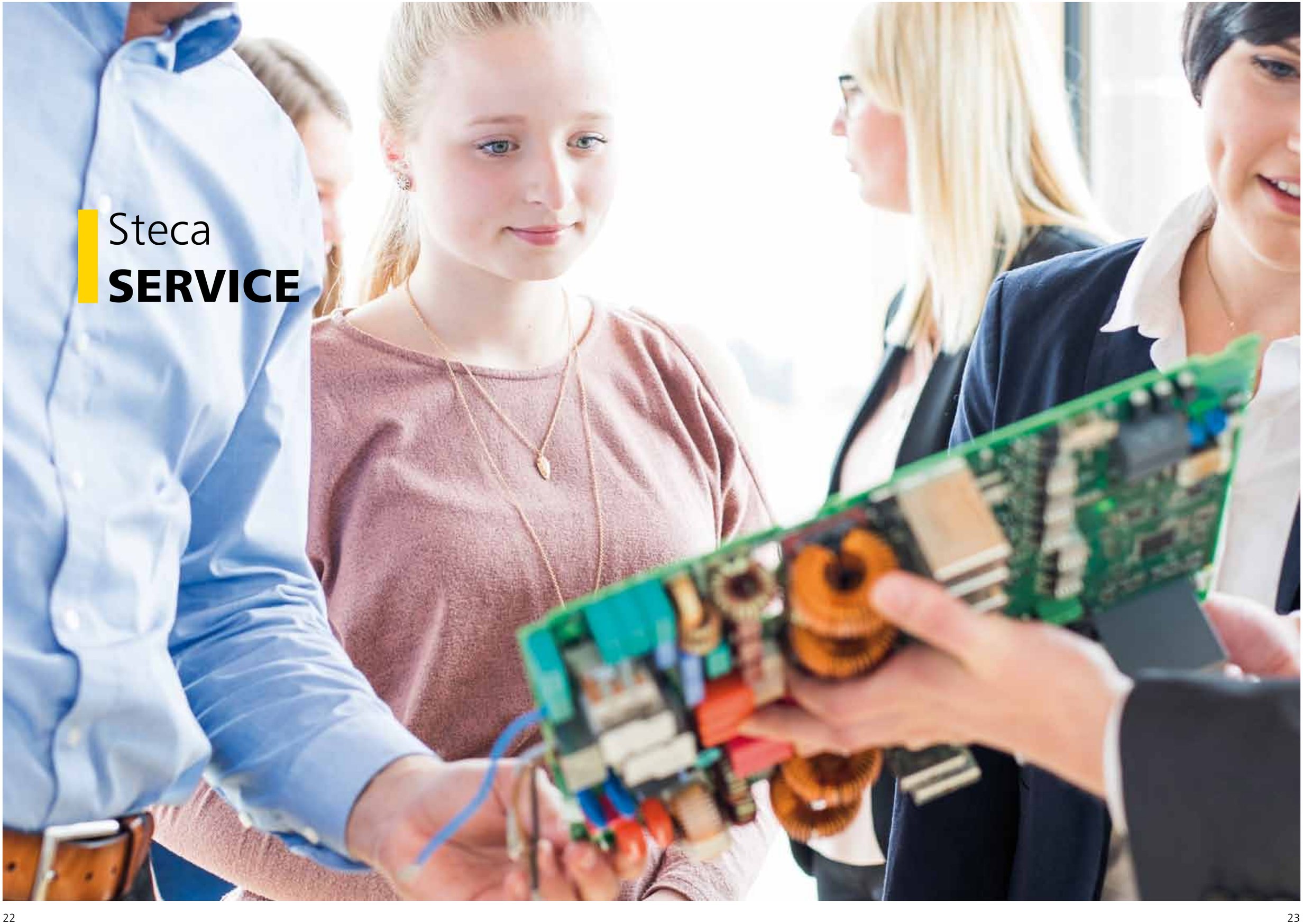


Exemplary connection

On the Steca SunCloud, several coolcept and coolcept flex inverters can be combined to one system.



Steca
SERVICE



PROFESSIONAL SYSTEM MONITORING
with StecaGrid Configurator 3.3 and 4.1

A technically matched system along with the suitable software secures the highest yields.

The simulation software versions provided by Steca aid system planners, dealers, installers and end customers in planning the right system.

Free software solutions

The comprehensive and detailed StecaGrid Configurtor 3.3 is available for download at www.stecasolar.com.
The easy to use and intuitive StecaGrid Configurator 4.1 is started online as a browser application.

StecaGrid Configurator 4.1
System planning online

The StecaGrid Configurator 4.1 is an innovative, user-friendly web application that makes the design and configuration of photovoltaic systems even easier than before. The application can be used without downloading and installing any extra software.

Intuitive and convenient
The intuitive menu structure allows quick entry of all data required for designing a system. The convenient user-interface allows selection from the range of StecaGrid inverters and corresponding PV modules and entry of the relevant system data. The StecaGrid Configurator 4.1 automatically calculates the optimum system design immediately.

For installers and system planners
If the interconnection concepts do not match each other, or the electrical values do not conform to the performance spectrum of a selected inverter, the program automatically indicates the problem.
The free StecaGrid Configurator 4.1 is optimally designed for the requirements of installers and system planners.

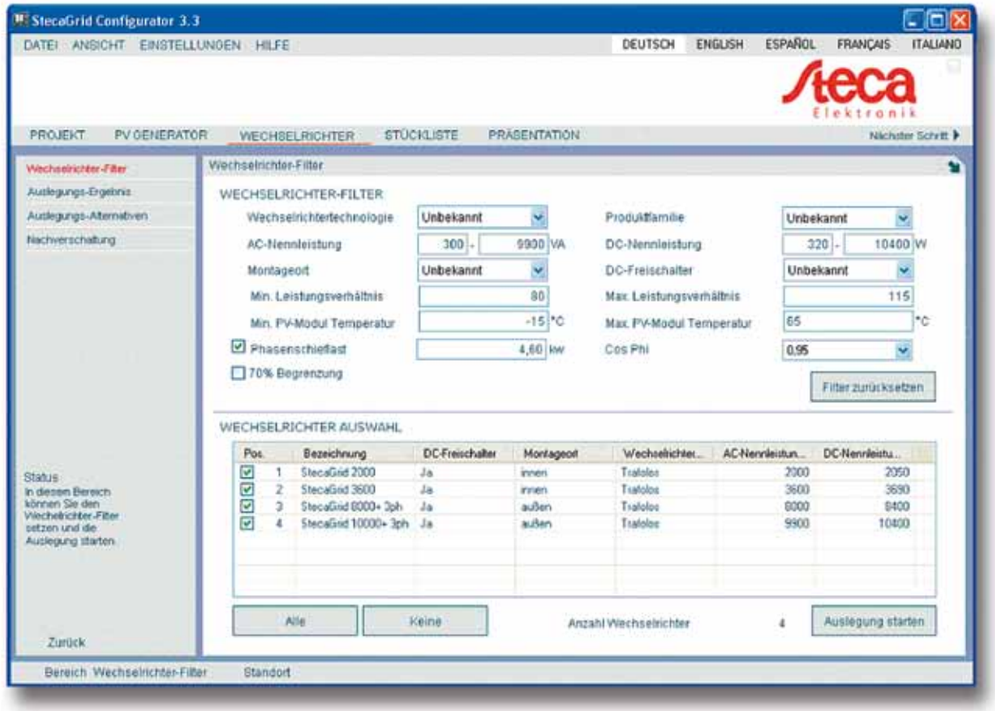
StecaGrid Configurator 3.3
System monitoring

The update version of the StecaGrid Configurator makes it possible to plan a photovoltaic system in an even more professional manner. It offers a wealth of improvements compared to its forerunner, the 3.2 version.

Among the new features is the inclusion of the new 70 % rule for design relationships where the output power is only 70 % of the module power. To consider the reactive power, Cos Phi (1.00; 0.95 or 0.90) can be selected. The system planner can also specify the maximum and minimum module temperatures. The number of modules to be used in the selected system configuration can be modified subsequently. The effects on the system values and yields as well as exceeding of the input parameters are clearly shown.
This version is self-contained, offering a convenient user interface. There are four different options for determining the size of a photovoltaic system after selecting a module type. In addition, modules stored in a large database can be filtered according to specific criteria. If the required module is not stored in the database, you can add own modules to the programme. This is followed by the selection of the inverters according to a range of specifications, for example the installation site and rated AC or DC power.

The calculated cost of generating electricity is taken as the standard selection criterion. To help with the specifications, the programme includes different values for the cost of systems planning as well as for modules, wiring, installation systems, etc. The installing company can provide their client data and company logo, which will appear on the printouts. A total of 100 locations throughout Europe offer irradiation data to help predict annual energy yield.
The predicted annual energy yield and the similarly editable values for the discount factor and operating time together allow the exact calculation in cents per kilowatt hour of the costs incurred by a system in producing electricity. On the basis of the electricity generation costs, it is possible to ascertain at a glance whether it would be more efficient to use the inverter with one more solar module, or one fewer. A list of required parts, the connection diagram and a summary of the project data all guarantee professional preparation for sales meetings with customers.
The programme's menu navigation can be set to German, English, French, Italian or Spanish.

The software is available free of charge at
www.stecasolar.com
For updates please refer to the Steca web site.



REPOWERING

Increased yield through inverter replacement

What does repowering mean?

Repowering of solar systems entails replacing components, such as e.g. inverters, on existing systems. The efficiencies of grid inverters have increased markedly in recent years, meaning that replacement inevitably brings enhanced efficiency and higher yields. Repowering also gives system operators the opportunity to enhance their monitoring capabilities thanks to current monitoring solutions.

Which systems are best suited to inverter repowering?

The replacement of inverters in existing systems is particularly worth while when the system was commissioned before 2009, when the guarantee period of the inverters has expired, or when the efficiency difference is sufficiently high.

Why should you install the new Steca coolcept inverters?

Steca's coolcept inverters offer the maximum possible yield increase, since with their top-ranking efficiency worldwide they consistently achieve the maximum efficiency difference. The good value for money of the inverters keeps retrofitting costs down. In this way, Steca makes repowering even more worth while!

Your benefits from inverter replacement

- On existing systems with high rates of feed-in compensation, any increase in efficiency immediately pays dividends.
- Renewed warranty period for replaced inverters reduces future maintenance costs.
- Modern inverters are significantly quieter; particularly where fitted in residential, working and occupied areas, noise levels are greatly reduced.
- New generation of inverters offers improved options for remote monitoring and visualisation of system data, enabling faults too to be identified and rectified more quickly.

StecaGrid Re-Configurator 1.0

Which coolcept inverter is the right one for my system?

The StecaGrid Re-Configurator 1.0 helps you to make this decision. The inverter replacement design programme uses the existing inverter to work out the ideal alternative from the Steca portfolio. All you have to do is enter the manufacturer, the type and number of existing inverters and the installation location.

The tool helps the installer not just with repowering, but also with replacing defective inverters too. The free StecaGrid Re-Configurator can be accessed through our website without any need for download or installation.

SERVICE

with added value, exclusively für Steca Sevice Partners

Support with added value, exclusively for Steca Service Partners

Whether workshops, guarantee extensions or marketing tools: Whatever you need in our diverse range of Service Partner services, we support you with know-how and advertising material for your professional presence.

Seminars

Steca is offering seminars on all product-related topics as a workshop. Here, you will learn from the trainers how to use the products for your application, as well as their function, installation and operation. Your opinion counts in order to present better solutions.

Youtube Channel

The Stecasolar Youtube channel presents brief instructions on selected products, as well as company news. Videos with easy to understand information explain how to use the individual products.

With the purchase of any Steca product you benefit from our extensive range of services:

Hotline / Support

Our capable customer advisers and technical support department are at your service at all times to answer any product questions you may have.
Phone*) +49 (0) 700 STECAGRID or +49 (0) 700 783224743 or outside business hours service@stecasolar.com.
Naturally, we support our international partners in their national language: we have customer advisers who speak English, French, Spanish or Italian.

Guarantee and guarantee extension

For EU and many other countries we provide a 5-year guarantee on all grid inverters. Within the first 2 years, guarantees can be extended to 10 or 20 years in some cases. We offer our trading and service partners especially favourable commercial and legal guarantee conditions and cost-sharing flat-rates.

Replacement service and repair

To keep the yield losses as low as possible in the case of a fault, we offer all our EU partners replacement devices. If a defective device cannot be repaired after expiry of the guarantee period, our Service Partners receive replacement devices under special conditions.

On-site customer service

If the Service Hotline and replacement service cannot correct your problems then our authorised Service Technicians will correct the problem on-site.

Workshops and seminars

As a Service Partner you are eligible to take part in our regular product training courses and receive information on new innovations.

Marketing tools

We support our Service Partners with professional marketing tools for the Web, trade fairs and communication.

Steca Service-Partner-Logo

As an authorised Service Partner, we allow you to use our logo on your advertising material.

*) Monday to friday from 8.00 to 16.00; 12 euro-cents/minute from within the german public telephone network)

Steca
EMS PROVIDER

Steca is certified according to
- ISO 9001
- ISO 14001
- ISO 50001
- ISO/TS 16949

Steca is audited according to
- EN ISO 13485

Steca guarantees top quality, safety and reliability, and places considerable emphasis on environmental compatibility during the development, construction, manufacture and distribution of its products. In order to reach these quality targets, Steca employs quality control and quality improvement strategies.

STECA Quality

Use the synergies by the know-how from different business segments and product areas for which we deliver electronic components and modules:

HOME APPLIANCES & CONSUMER ELECTRONICS
- Refrigerators and freezers
- Electrical equipment
- Heating controllers
- Cable assemblies

AUTOMOTIVE
- Controls for auxiliary heating systems and sliding car roofs
- Power distribution modules / fuse modules
- LED lighting systems for car interieur

MEDICAL TECHNOLOGY
- Dental technology for practice and laboratory facilities
- Mobile heart defibrillators
- Microscopy systems
- Pipette systems for analysing solids and fluids

INDUSTRIAL ELECTRONICS
- Step motor controls
- Pump controls
- Sensors
- Welding machines
- Packing machines
- Control units (HMI)

SOLAR & ENERGY
- Grid inverters for residential systems
- PV off grid
- Solar charge controllers
- Solar thermal controllers
- Heating and domestic hot water controllers
- Battery charging systems

Steca
INTERNATIONAL NETWORK

MEMBER OF PRIMEPULSE

Steca is part of the PRIMEPULSE network.
PRIMEPULSE is the management holding company and group within which the experienced founders and managers of TecDAX-listed CANCOM SE and the AL-KO Group, which developed as a family business, actively guide their equity investments to success using their digital expertise and entrepreneurial skill. The efficient network includes international companies such as CANCOM, AL-KO and Stemmer Imaging.
The PRIMEPULSE Group operates in the IT, vision technology, electronics, e-business, automotive, air technology, garden tech and real estate segments. As a strategic investor, PRIMEPULSE takes a long-term, value-oriented approach to equity investment and is a safe long-term partner for companies and real estate projects.

For you on-site.
With two locations, Steca can combine the quality and flexibility of a German provider with the advantages of low-cost production abroad. Enthusiastic and motivated staff on site, an experienced international and multilingual sales team as well as many sales partners and authorised wholesalers worldwide make Steca a significant company on both a national and international scale.

Memmingen | Germany
Foundation 1976 | 450 employees
- Research and development
- Industrialisation
- Marketing, sales, puchasing
- Production
- Service

Saedinenie | Bulgaria
Foundation 2006 | 300 employees
- Industrialisation
- Purchasing
- Production



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