



Australian made solutions for  
renewable energy storage.



# Made locally, delivered globally.

Selectronic is an Australian, family-owned company that has been delivering energy solutions to Australia and the world for more than fifty years. Founded in 1964 by the Scott family, Selectronic quickly established itself as a major manufacturer of custom made transformers and inductors for the local electronics industry.

Over the decades, Selectronic has grown through a philosophy of providing products and solutions that focus on the customer needs and the demand from renewables and energy storage industries. Selectronic was one of the first companies in the world to have the concept of and deliver products for the storage of renewable energy.

Using advanced technologies, Selectronic's inverter products form the heart of efficient, cost-effective storage based renewable energy systems. Renowned in the renewables industry for its performance, durability and versatility, Selectronic's flagship model the SP PRO, is designed and made by Selectronic at its production facility in Victoria.

Through Selectronic's commitment to championing and supporting Australian owned businesses and manufacturers, each SP PRO is hand assembled using over 83% in materials from Australian companies.

You can find an SP PRO in the tropics of Indonesia, the mountains of the Himalayas, the deserts of the UAE, the outback of Australia and on suburban homes throughout the world.

Selectronic has its customers covered with these world-renowned inverters that offer grid independence, reliability, flexibility and Melbourne-based after sales support that is second to none.



**Each SP PRO is  
assembled using over  
83% in materials from  
Australian companies.**

Rod Scott, CEO



## Intelligent uninterrupted power supply

Our Solar Hybrid system will give you an uninterrupted power supply, meaning you are protected from grid outages. Simple, automatic and undetectable. Your solar power will continue to be used by the household and any excess solar is sent to the battery for later use. If you experience an extended outage, an optional generator controller can be installed, to control an auto-start generator that will only start when the battery is depleted.

Thanks to the high peak power output of the SP PRO, all types of loads can be operated during a grid outage and we are always told by customers that they were not even aware the grid had failed and that the lights didn't even flicker.

## The component approach

The Selectronic component approach allows Battery, Battery Inverter and Solar inverter to be mixed and matched. This means that we will not lock you in for choices in the future. You may want to upgrade your batteries to the latest technology, or add more Solar. We don't just think of the now, we think of the big picture too so you will make the most of your investment.

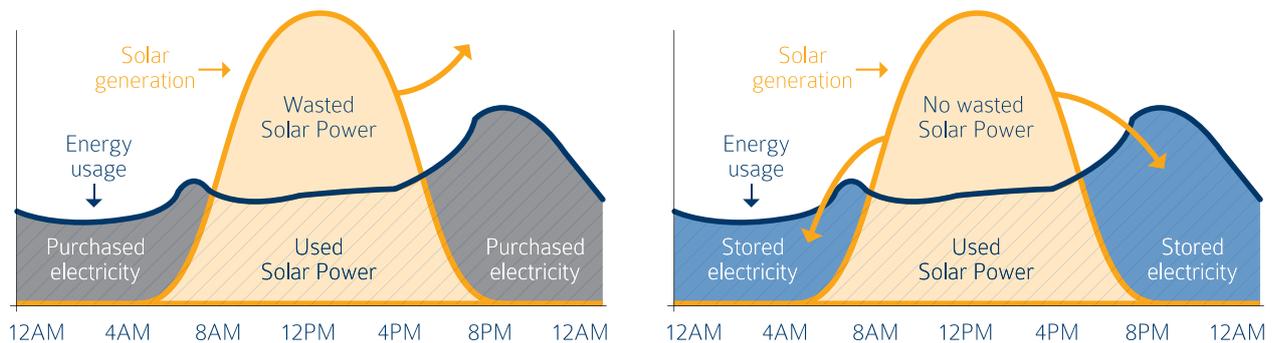
## Data and communications

Free SP LINK software can be used to display over 200 data points, up to 18 months of daily system summaries and up to 4 months data logging. There are a number of wired and wireless options allowing you to view and control your system from anywhere in the world. For a system overview anywhere you have Internet access on any device our optional Select.live is available.

## Relax, we've got you covered

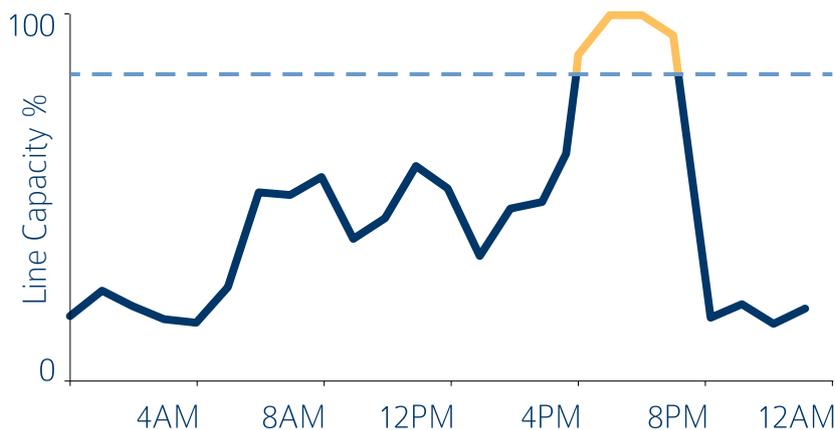
The Australian made SP PRO intelligent inverter is at the heart of all battery-based Selectronic energy systems. The SP PRO can work with all of the top battery brands available including BYD, LG, Gen Z, Pylontech and Sonnenschein. Selectronic backs this up with an industry-leading 7 year standard warranty, with up to a possible 10 year (country-dependent) warranty. Now that's something you can trust.

# The benefit of batteries.



Above left - without batteries, above right - with batteries

By adding energy storage to a new or existing system, you are storing the unused solar power and reducing the amount of purchased electricity from the grid. This reduces energy bills and stores power when you need it most, especially during power outages and during load shedding periods.



Peak lopping diagram shows energy above line capacity, supplied from stored energy

## Peak lopping

Electricity charges come in many different forms. In commercial applications it is common for electricity charges to be based on the site's peak demand. Utilising a battery bank with any SP PRO hybrid inverter allows additional load capacity to come from battery storage rather than the electricity grid. When demand reduces, batteries will be recharged ready for the next peak demand event. Peak demand charges can be significantly reduced with this system.

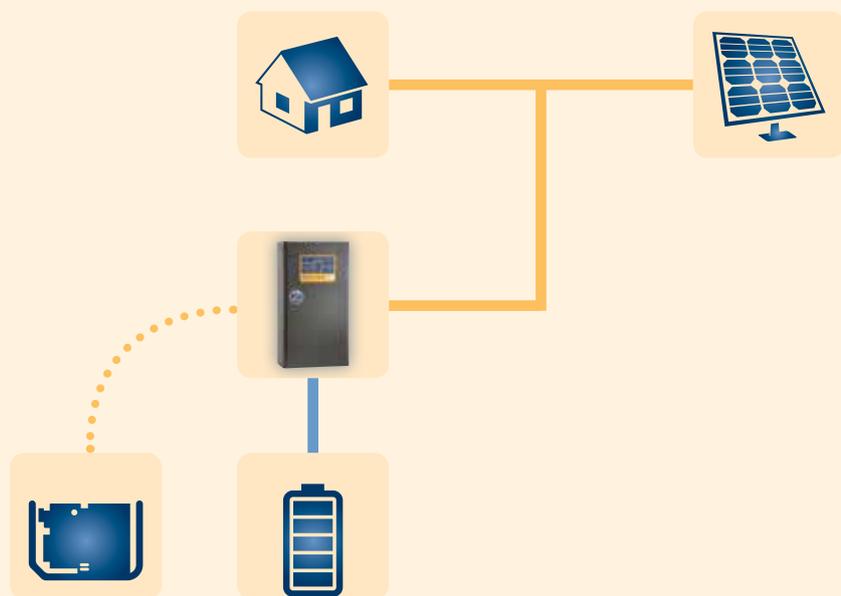
## Grid support

The same system as used for Peak Lopping can be used to support a grid which has insufficient supply capacity. To add additional capacity to a grid, particularly a rural grid, can be very expensive. Additional capacity is easily supplied by incorporating battery storage and an SP PRO inverter. Whenever the AC load demand is above the grid capacity, additional energy comes from the SP PRO and battery bank.

# System solutions to give you independence off the grid.

## A typical off-grid power system

When you leave the grid behind, reliability, efficiency and lowest cost of ownership are essential. The intelligence of the SP PRO will manage all components of your system to maximise battery life, minimise generator run, and ensure the lowest possible cost of ownership over 10 to 20 years.



## Solar power

The SP PRO can operate with AC or DC Coupled Solar arrays. Our AC Coupled Smart Link technology utilises RS485 communications to accurately and smoothly control the output of the Solar. The result is a smooth Frequency and Voltage output to power your world.

## Fuel generators

Unfortunately sometimes there just isn't enough sun or wind, so a backup generator is needed when batteries become depleted. The SP PRO will start the generator to run the load and then use any spare generator capacity to charge the batteries. If a load larger than the generator is turned on, the SP PRO will also run the load along with the generator. Of course SP PRO intelligence will ensure the generator does not operate during your quiet times.

## Hydro or wind

Some sites are geographically better suited to utilising wind or water as a source of power. The SP PRO will work with these DC coupled energy sources without a problem, while continuously providing an accurate State-Of-Charge (SOC) reading.

# System solutions to stay connected to the grid.

## Solar power system - smart battery ready

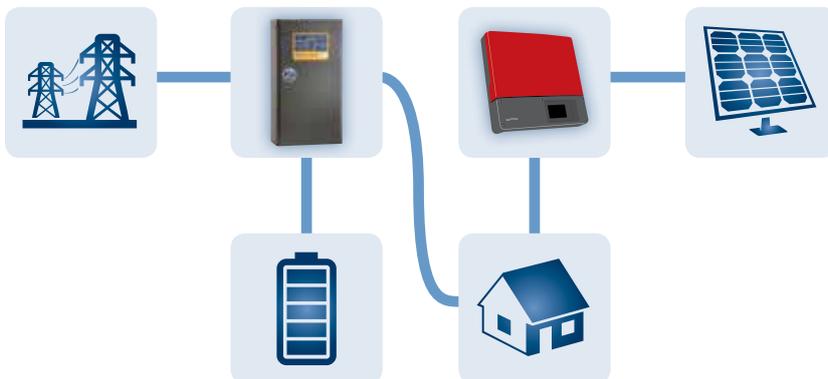
A cost effective solar installation uses a Selectronic Certified solar inverter to directly supply the household while excess solar power is exported to the grid. Using a Selectronic Certified solar inverter allows a fully managed battery storage system to be added at a later date giving you access to a new world of features and possibilities. A Selectronic Certified solar inverter gives you maximum flexibility, now and into the future. With its flexibility and free software upgrades, your added battery storage system will look after you well into the future – regardless of changes in electricity supply structures.



This system design uses a Selectronic Certified solar inverter.

## Retrofit existing solar power systems

Millions of grid solar systems are installed around the world, many with generous feed-in tariffs that are coming to an end. The addition of an SP PRO bi-directional hybrid inverter allows you to store any excess solar energy in a battery to use later, instead of exporting it to the grid. Any solar inverter, including micro inverters, can be retrofitted with an SP PRO. If your solar inverter is Selectronic Certified, then more enhanced features within your SP PRO will be available, such as export limiting.



This system design retrofits to a system using any solar inverter.



## DC coupled system - more solar installed

The flexibility of the SP PRO also allows Solar input on the battery side of the system, this is called DC Coupling and may allow significantly more Solar to be installed than may otherwise be allowed by your electricity company. The inclusion of the Selectronic Smart Link will provide greater battery options.



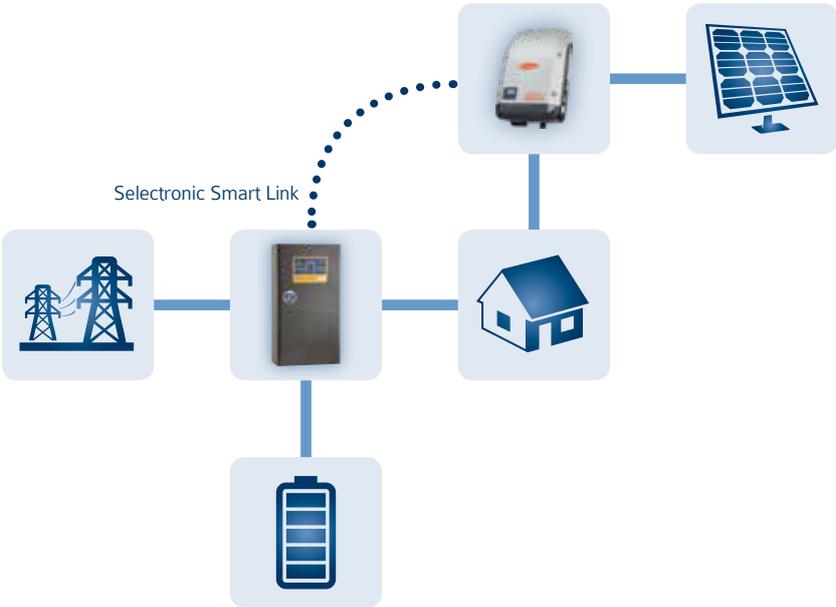
This system design uses an MPPT (Maximum Power Point Tracker) solar controller in place of a solar inverter.



# The complete Selectronic solar hybrid solution

By incorporating a Selectronic Certified Solar Inverter with our Smart Link technology allows our flagship solution to take control of your power choice and flexibility over how you use the electricity grid. The aim of our Solar Hybrid system is more self-consumption of solar-generated power and less reliance on the grid. Exporting unused solar to the grid appears at first glance to be cost effective but you may be paid very little, if anything, for the solar you export. Once the sun has gone down you will pay full price to buy back the electricity you gave away earlier – it hardly seems fair.

Electricity prices and Solar Feed-In Tariffs are constantly changing, that's why we developed our advance Smart Link technology to allow full and variable control of the energy flow in your system. Regardless of the market conditions this system can be easily adapted to any tariff situation day or night. You can choose to recharge your batteries with cheap overnight electricity or with solar the next day. You choose how much battery storage you use. Use the grid as little or as much as you want, it's your choice. Simple, automatic and undetectable.

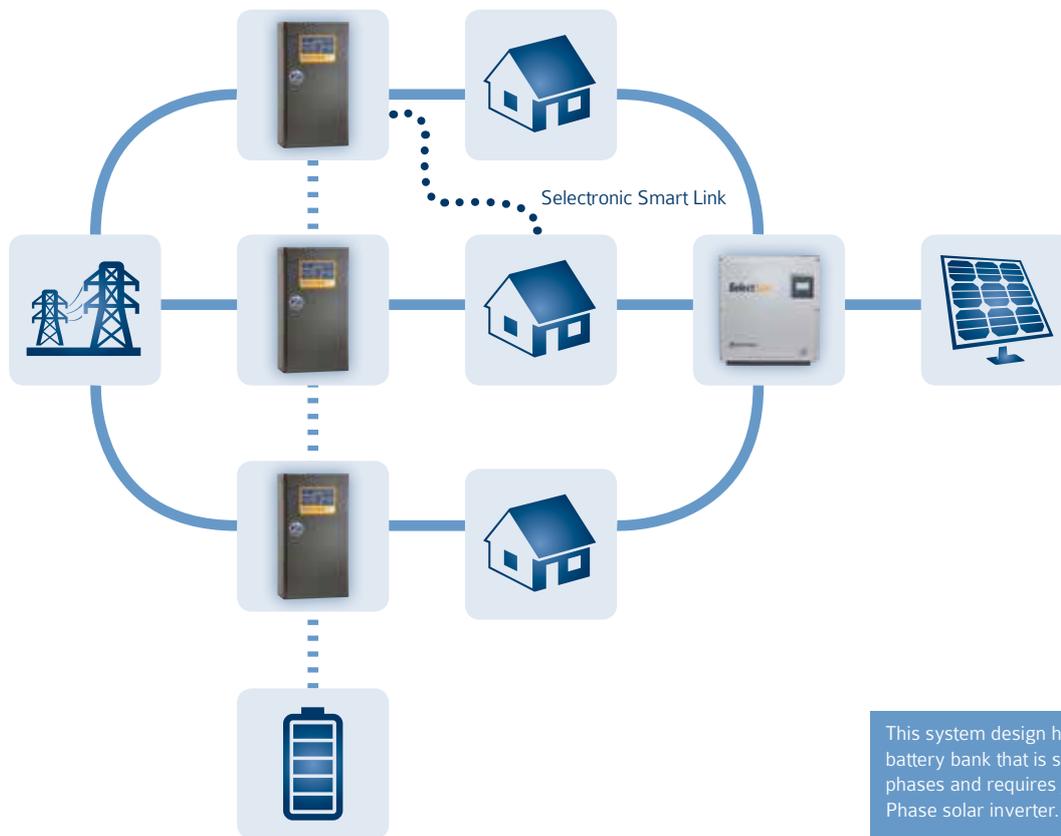


This system design uses a Selectronic Certified solar inverter.



## 3 phase system

Many larger homes and industrial buildings will have a 3 phase supply. By installing an SP PRO on each phase along with a SelectSun 3 phase Solar inverter you will have all bases covered. Just like our single phase solution, Solar power will be optimised and spare Solar stored in the battery. Our 3 phase systems share a common battery bank, so energy can be shared between phases. Should the grid fail, you will continue to be able to operate 3 phase or single phase loads.



This system design has one common battery bank that is shared between phases and requires just one SelectSun 3 Phase solar inverter.



# Our products do more than you can possibly imagine.

Whether being used with or without the Grid, the SP PRO is simply stunning in its versatility and robustness, we are so confident in our product we back it with up to a 10 year warranty.

Whatever your power needs, Selectronic also have you covered with an array of 'Selectronic Certified' solar inverters as well as the new Select.live remote monitoring service that allows you to monitor your power system 24 hours a day, from anywhere in the world with an internet connection!

For more detailed technical information and specifications of Selectronic products, please visit our website.



## SP PRO Series 2i

One of the most intelligent battery inverters in the world, the SP PRO bi-directional inverter charger can control and manage every aspect of your energy needs. Whether you live off-grid, on-grid and want to add storage, or on-grid and want to move off-grid, the SP PRO will convert electricity stored in batteries to operate your usual electrical loads and provide a quality and reliability far exceeding grid electricity.

All home appliances including heating and cooling can be operated without fuss; equipment such as pumps and motors can be operated as normal. By incorporating solar, wind, hydro or a diesel generator with batteries, you can be sure you will never be without power.



## Selectronic Certified

To utilise all of the possibilities of an SP PRO system such as export limiting or going off the grid, the SP PRO will need to work with a Selectronic Certified solar inverter. These inverters will use dedicated communications to precisely control the flow of energy from the Solar Panels. This means you have a system that is flexible, accurate and future proof.

When it's Selectronic Certified you have the peace of mind of compatibility and backup from Selectronic. Just imagine when you make that leap to leave the grid and go OFF Grid, your SP PRO system with a Selectronic Certified Solar inverter is ready to take you there.

# SP PRO Series 2i Specifications

SP PRO Model	AC continuous output	AC output 30 minutes	AC output peak	Battery voltage	Max. AC solar with Selectronic Certified inverter	Max. AC solar with non Selectronic Certified solar inverter	Max continuous backup power <sup>~</sup>	Solar operates during blackout	Internet monitoring	Pass through from Grid <sup>#</sup>	Power interruption in blackout	Warranty
SPMC240-AU	3.0 kW	4.2 kW	7.5 kW	24 V	6.0 kW	3.0 kW	3.0 kW	Yes	Yes with optional Select.live	15kW / 240kW per phase	Typically less than 30 milli seconds	Up to 10 years for Aust NZ otherwise 5 years. Conditions apply.
SPMC241-AU	4.5 kW	6.75 kW	10.5 kW	24 V	9.0 kW	4.5 kW						
SPMC480-AU	3.5 kW	5.25 kW	8.4 kW	48 V	7.0 kW	3.5 kW						
SPMC481-AU	5.0 kW	7.0 kW	12.0 kW	48 V	10.0 kW	5.0 kW						
SPMC482-AU	7.5 kW	11.25 kW	18.0 kW	48 V	15.0 kW	7.5 kW						
SPMC1201	7.5 kW	11.25 kW	18.0 kW	120 V	15.0 kW	7.5 kW						
SPLC1200	15.0 kW	23.0 kW	33.0 kW	120 V	30.0 kW	15.0 kW						
SPLC1202	20.0 kW	30.0 kW	38.0 kW	120 V	38.0 kW	20.0 kW						

\* Country dependent

~ Output dependent on battery capacity

# 240kW per phase with external contactor

This information reflects the current technical state at the time of printing. Subject to technical changes. Errors and omissions excepted. Figures provided should be used as a guide only. See [www.selectronic.com.au](http://www.selectronic.com.au) for full specifications.



## SelectSun

SelectSun is the new 3 Phase solar inverter from Selectronic, made in collaboration with leading German manufacturer REFU. SelectSun has been designed EXCLUSIVELY for Australia and New Zealand as the ideal solution for your larger scale renewable power needs.

SelectSun operates at maximum power even in 40°C ambient temperatures, thanks to a low maintenance German design, along with an IP65 rating for outdoor installation. From larger scale rooftop solar to solar farms, or even as an Off-Grid solution when combined with the Selectronic SP PRO inverter for energy storage, SelectSun is a flexible solution.



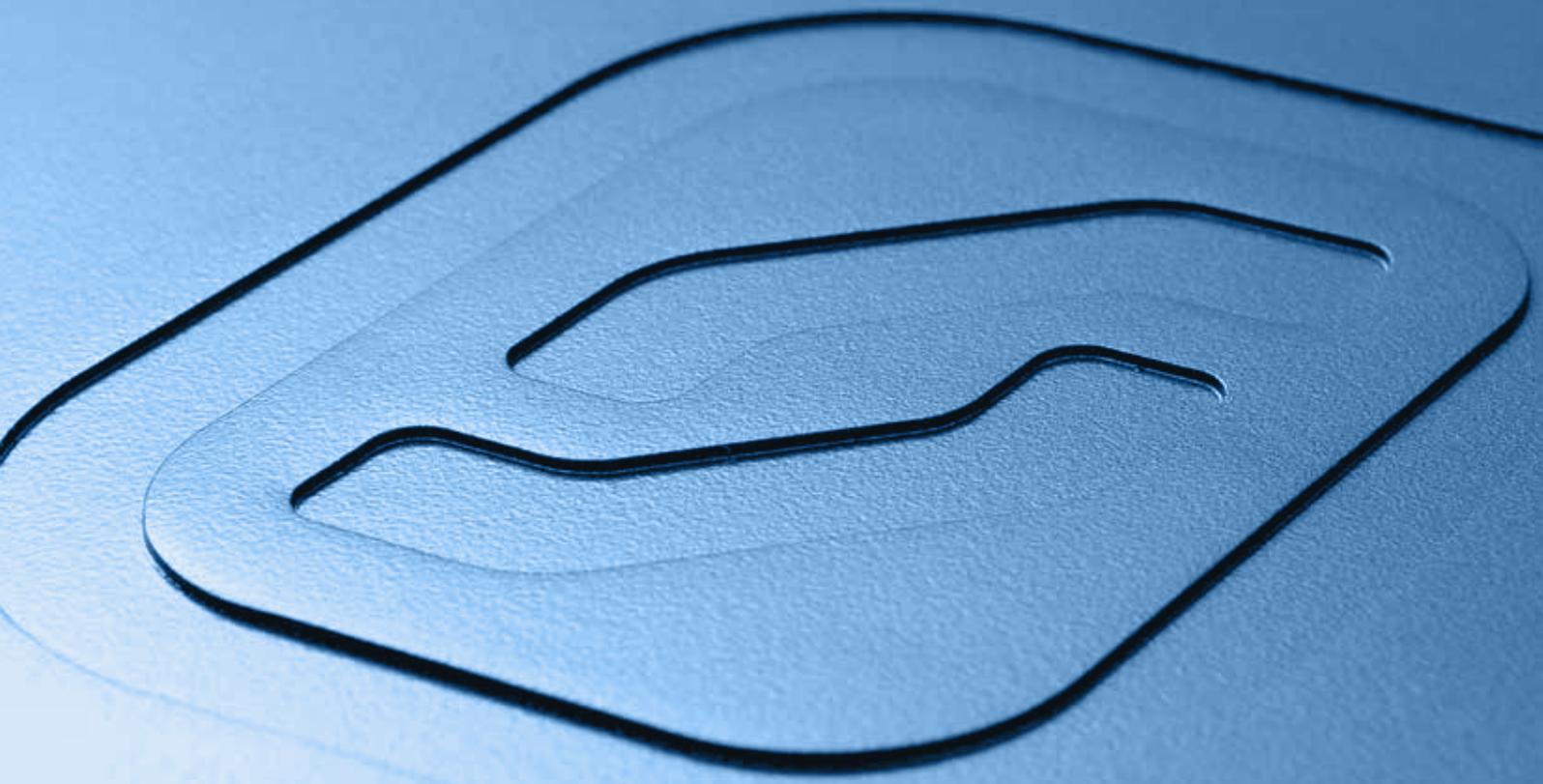
## Select.live

Today we demand up to the minute information as part of everyday life. Select.live is a remote monitoring portal that provides end users with user-friendly access to understand what is happening with their system in real time.

Select.live can be integrated with any SP PRO system. The secure web-based portal can be accessed on any internet connected PC or Mac computer, or any portable device that uses iOS or Android platforms.

Scan the QR code to access a LIVE demonstration of Select.live in action, or visit our website.





Proudly Manufactured in Australia

Grid Independence | Outstanding Reliability | Ultimate Flexibility

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