



→ Take control of your Power

With a power system based around the Selectronic SP PRO series of Intelligent Inverters, it is now possible to have complete control over how, if and when you use grid electricity.

Independence | Peace of Mind | Reliability | Flexibility

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Who says you need the grid?

The way we think about grid electricity is changing rapidly, thankfully, so too is the technology available to use electricity in a smarter way, a more appropriate way and a way that you choose.



Electricity is an essential part of life. Selectronic has been helping produce electricity from alternative sources such as Solar, Wind, Hydro and Diesel Generators for many years from our manufacturing base in Melbourne, Australia.

There are 3 major factors that affect the choices we make today about our electricity supply:

- Reliability
- Cost
- Environmental impact

Selectronic can address each of these factors using cost effective Solar Power, Wind, Hydro, Battery Storage or a combination of these.



Warranty & Flexibility

The Australian made SP PRO Intelligent inverter is at the heart of all battery based Selectronic energy systems, and has provided outstanding success and reliability since first being introduced to the market.

Whilst the SP PRO platform is stable and proven, new features are continually being added to allow it to stay ahead of the market needs. The Selectronic customer commitment continues after the purchase of the product, as all new software updates are "backward compatible", meaning you can get the latest features at any time in the future- free of charge.

Selectronic back this up with a standard warranty that is second to no other battery based inverter. Up to an 8 year country dependent warranty is possible, and backed by a company that's been around since 1964. Now that's something you can trust.



Monitoring

Knowing how your system is performing is easy with the SP LINK software. You can know the state of charge of the batteries, how much solar has been generated for the day and much more information from anywhere in the world. Your installer can also be notified of any pending maintenance requirements. Firmware updates to the SP PRO can be done remotely.



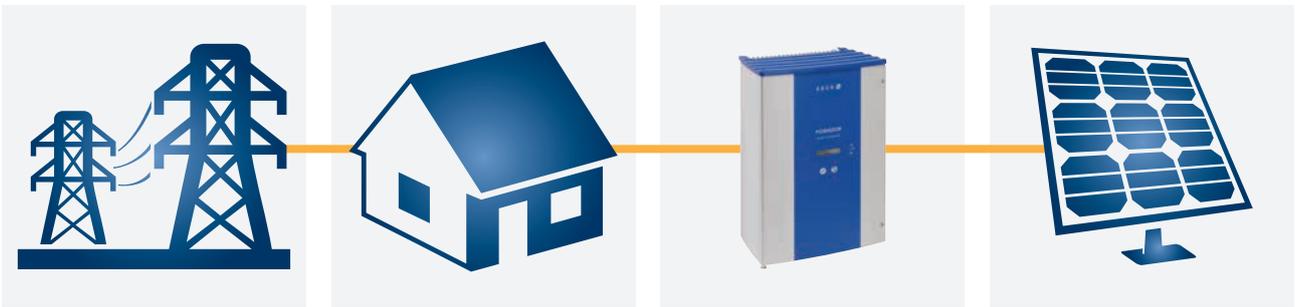
Simple Self Consumption – No export limitations

A cost effective solar installation uses a Selectronic Certified Grid Tie inverter to directly supply AC loads while excess Solar Power is exported to the Grid.

Using a Selectronic certified 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 Inverter gives you maximum flexibility for now and the future. With its configurability and free software upgrades, your added battery storage system will look after you well into the future – regardless of changes in electricity supply structures.

- ✔ Future ready
- ✔ Cost effective
- ✔ High efficiency
- ✔ Battery storage compatible
- ✔ Single phase or three phase



Simple Self Consumption – Utility imposed export limits

It is becoming common place for electricity utilities to not allow solar power to be exported to the grid, or only a portion of the solar.

Adding a correctly chosen SP PRO GO series to your system ensures that the amount of solar you export back to the grid complies with your utility's allowance, even if this is zero. You will have all the benefits of self consuming all your solar whilst still complying with the needs of the electricity utility.

No batteries are required and each SP PRO GO can control up to 5 Selectronic Certified inverters.

- ✔ Cost Effective
- ✔ High Efficiency
- ✔ Utility Friendly
- ✔ Add Batteries later



Existing solar systems

1000's of grid solar systems are installed around the world, many with generous Feed In Tariffs which will come to an end in the near future. The addition of an SP PRO energy system allows you to store any excess solar capacity in batteries and use it later, instead of exporting it to the grid. Any grid tie inverter including micro inverters, can be retrofitted with an SP PRO energy system. Naturally if your grid inverter is Selectronic Certified then enhanced features within your SP PRO energy system will be available.

- ④ Retrofit to any existing grid tie system
- ④ Micro inverter compatible
- ④ Solar systems up to 35 kW



Intelligent UPS

If zero export to the grid is what you need then the right SP PRO coupled with batteries will give you an intelligent UPS. The system is ready to support you in the event of a grid interruption or brownout. Batteries can be charged at off-peak rates to reduce your energy consumption during peak tariff periods by supporting the loads. Peak lopping and grid support can also be achieved.

It might sound strange but solar panels are optional.. The advantage of the addition of a renewable source like solar is that it will offset your energy use from the grid. Any solar production beyond what is needed can be stored for later use. All-in-all, it's a very intelligent UPS.

Solar Hybrid – Complete solution

Our flagship solution provides many choices in addition to the Simple Self Consumption solutions.

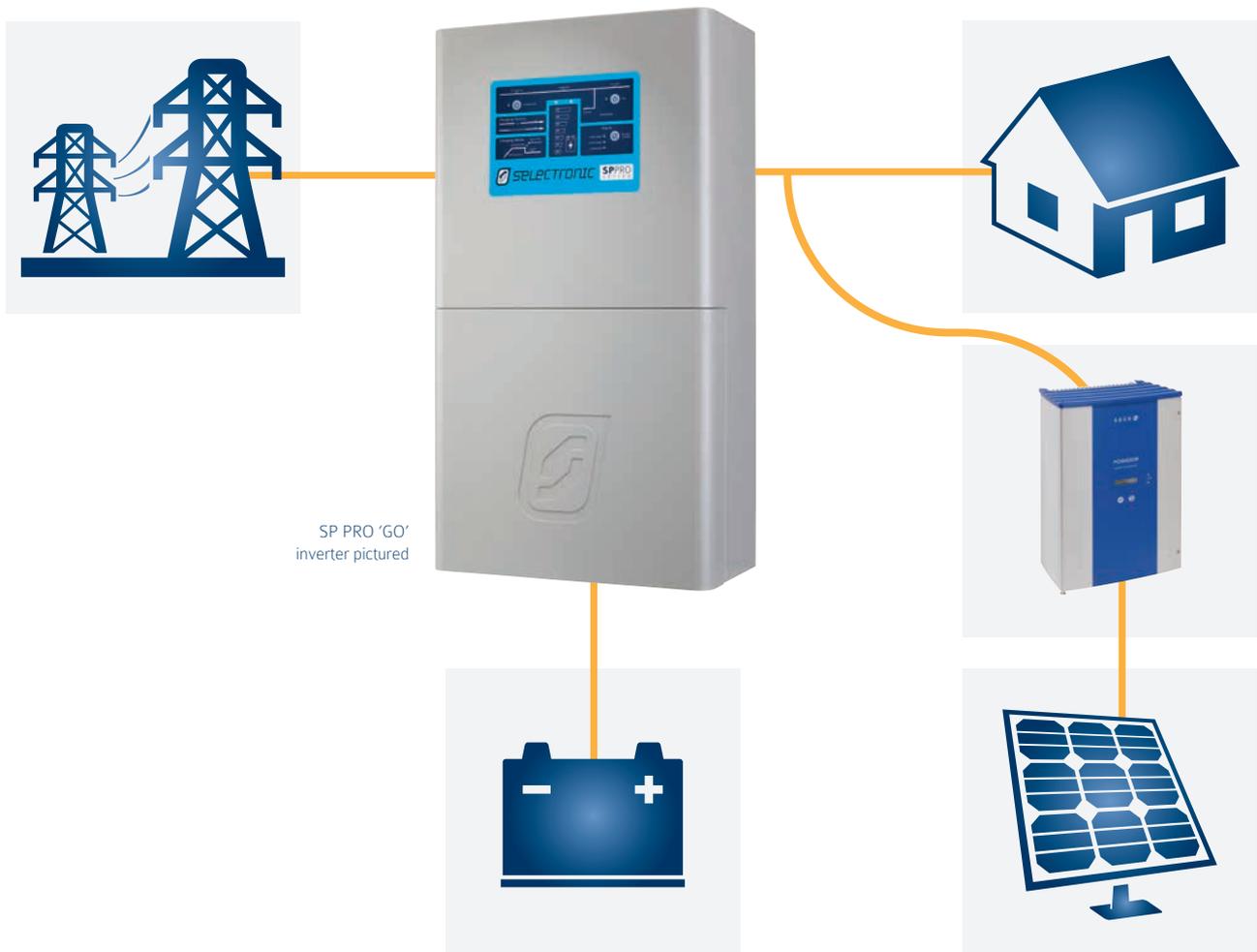
The addition of battery storage opens up a world of possibilities, your imagination might be the only limit.

Exporting unused solar to the grid is efficient and appears at first glance to be cost effective, but in many circumstances 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.

Depending on your Feed In Tariff, you can choose to export to the grid or store this excess solar in a battery bank (Eg myGrid). Any modern battery types can be used including the latest Lithium Ion battery. Once the sun goes down you can commence using your stored solar. When batteries are depleted the grid will recommence. Simple, automatic and undetectable. You can choose to recharge your batteries with overnight cheap electricity or with solar the next day. You choose how much you want to use the battery storage. Use the grid as little or as much as you want, it's your choice.

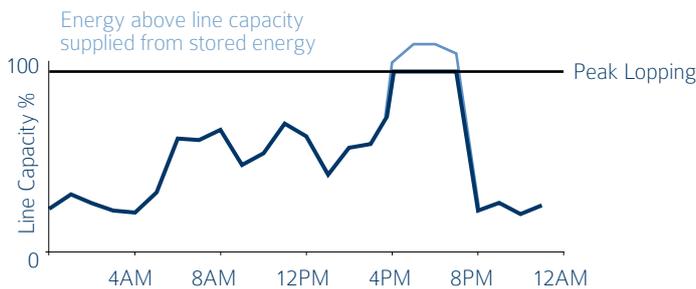
Reliability of grid electricity is affected by many factors including natural disasters, which can have devastating effects.

Our Solar Hybrid solution solves this issue by powering on through grid outages. Your solar will continue to be used by the loads and any excess sent to the batteries 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 batteries are depleted.



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 intelligent 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.

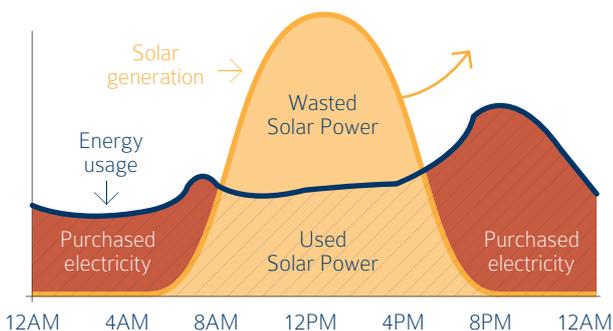


Grid Support

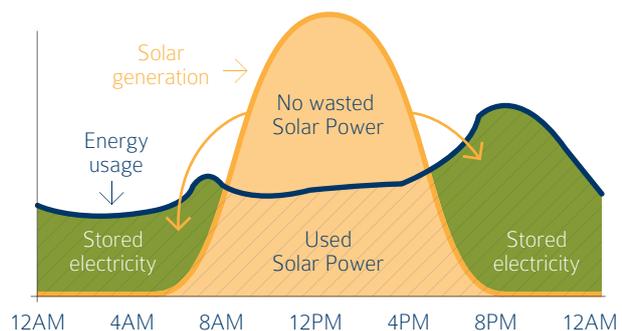
The same system as used for Peak Lopping can be used to support a grid which has insufficient supply capacity. To add additional capacity to a grid, particularly a rural grid, can be very expensive. Additional capacity is easily supplied by incorporating battery storage and an SP PRO inverter. Whenever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

Simple, automatic, undetectable.

- ☑ Self consume all Solar
- ☑ Minimise export
- ☑ Minimise grid use during peak electricity times
- ☑ Protection against grid outages
- ☑ Optional backup Generator for extended grid outages
- ☑ Recharge batteries from grid or Solar



Without Batteries



With Batteries

myGrid

Your system designer can custom engineer a solution for you, using the batteries of your choice, including Lithium Ion. You can also choose a pre-engineered solution using a Selectronic myGrid kit. These battery kits are ready for you to choose the appropriate SP PRO, Solar Panels and Grid Tie Inverter or Solar Controller.

These kits have been engineered for superior performance with matched components. When your system is built around a myGrid solution you will benefit from an additional 12 months warranty on the SP PRO inverter.

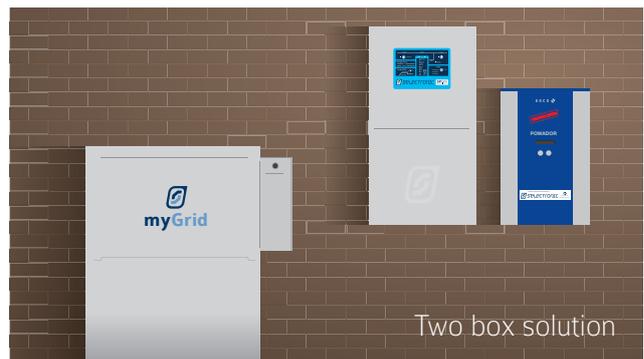
- Ⓞ Pre-engineered ready to assemble on site
- Ⓞ Additional 12 month warranty on SP PRO
- Ⓞ Matched components
- Ⓞ Batteries from 6.2 kWh to 25 kWh

Kit includes:

- Ⓞ High quality German Sealed batteries with IP43 Battery box
- Ⓞ Battery interconnects
- Ⓞ DC cabling from inverter to batteries
- Ⓞ Battery Circuit Breakers
- Ⓞ You choose which SP PRO you need, and add your standard Grid Tie Solar System

SELECTRONIC CERTIFIED

To utilise all of the possibilities of an SP PRO system such as export limiting, the SP PRO will need to work with a Selectronic Certified Grid Tie 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.



Selectronic Certified Grid Tie Inverters

For a full list of Certified Inverters please see the Hybrid section of our website or scan this QR Code



myGrid standard kits for Solar Hybrid systems

Model No.	SP PRO choices (GO and AU series incl.)	Total Battery Capacity @ C10. Solar Hybrid	Maximum AC Coupled Solar Allowed		Backup Generator compatible with additional module	3 phase compatible	Battery Voltage	Battery type	No of Battery boxes	Useable Battery Energy
			Managed with Selectronic Certified Inverters*	Generic Inverters**						
MG008024-S6	SPMC240	6.24kWh	6kW	3.0kW	✓	✗	24V DC	Sealed Lead Acid Gel Battery. German made.	1	see note***
	SPMC241		9kW	3.0kW	✓	✗				
MG016024-S6	SPMC240	12.5kWh	6kW	3.0kW	✓	✗	24V DC		2	
	SPMC241		9kW	4.5kW	✓	✗				
MG016048-S6	SPMC481	12.5kWh	10kW	5.0kW	✓	✗	48V DC	2		
	SPMC482		15kW	6.0kW	✓	✗				
MG032048-S6	SPMC481	25.0kWh	10kW	5.0kW	✓	✗	48V DC	4		
	SPMC482		15kW	7.5kW	✓	✗				

* For a list of Selectronic Certified inverters please go to our website.

** Generic Inverters apply to ON Grid applications ONLY where PV does not exceed export limits. Otherwise you can use any brand of Grid Inverter.

*** The amount of energy that can be extracted from the battery is determined by how deep you wish to discharge the batteries. We recommend batteries are not taken below 50% State of Charge on a daily basis. Please note that the deeper you discharge the batteries each day, then a subsequent reduction in battery life will occur. See our website and your system supplier for battery specifications and expected life in your system.

SP PRO AU Series Specifications (no export limiting)

Model	AC Output	Export Power	Battery Charge	Input Voltage	Warranty
SPMC240-AU	3.0 kW	Rated output*	3.0 kW	24 V	3 - 8 Years**
SPMC241-AU	4.5 kW	Rated output*	4.5 kW		
SPMC481-AU	5.0 kW	Rated output*	5.0 kW		
SPMC482-AU	7.5 kW	Rated output*	7.5 kW	48 V	
SPMC1201	7.5 kW	Rated output*	7.5 kW		
SPLC1200	15.0 kW	Rated output*	15.0 kW	120 V	
SPLC1202	20.0 kW	Rated output*	20.0 kW		

SP PRO GO UPS Series Specifications (no export allowed)

Model	AC Output	Export Power	Battery Charge	Input Voltage	Warranty
SPMC240-0.0	3.0 kW	0.0 kW	3.0 kW	24 V	3 - 8 Years**
SPMC241-0.0	4.5 kW	0.0 kW	4.5 kW		
SPMC481-0.0	5.0 kW	0.0 kW	5.0 kW	48 V	
SPMC482-0.0	7.5 kW	0.0 kW	7.5 kW		
SPMC1201-0.0	7.5 kW	0.0 kW	7.5 kW	120 V	
SPLC1200-0.0	15.0 kW	0.0 kW	15.0 kW		
SPLC1202-0.0	20.0 kW	0.0 kW	20.0 kW		

SP PRO GO Series Specifications (limited export)

Model	AC Output	Export Power	Battery Charge	Input Voltage	Warranty
SPMC240-2.0	3.0 kW	2.0 kW	3.0 kW	24 V	3 - 8 Years**
SPMC240-2.5	3.0 kW	2.5 kW			
SPMC241-2.0	4.5 kW	2.0 kW	4.5 kW		
SPMC241-2.5	4.5 kW	2.5 kW			
SPMC241-3.0	4.5 kW	3.0 kW			
SPMC241-3.5	4.5 kW	3.5 kW	5.0 kW		
SPMC481-2.0	5.0 kW	2.0 kW			
SPMC481-3.0	5.0 kW	3.0 kW			
SPMC481-4.0	5.0 kW	4.0 kW			
SPMC482-2.0	7.5 kW	2.0 kW		7.5 kW	
SPMC482-3.0	7.5 kW	3.0 kW			
SPMC482-4.0	7.5 kW	4.0 kW			
SPMC482-4.9	7.5 kW	4.9 kW			
SPMC482-5.0	7.5 kW	5.0 kW			
SPMC482-6.0	7.5 kW	6.0 kW			
SPMC1201-6.0	7.5 kW	6.0 kW	15.0 kW	120 V	
SPLC1200-15.0	15.0 kW	15.0 kW			
SPLC1202-20.0	20.0 kW	20.0 kW			

* 2 x rated AC output with a Selectronic Certified inverter. ** Country dependent.

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 for full specifications.

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Application: Solar Hybrid. Product: SP PRO GO Series. Document No: BR0009_03 Solar Hybrid Brochure