selectronic

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.

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

Independence | Peace of Mind | Reliability | Flexibility

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Self Consumption – No export limitations

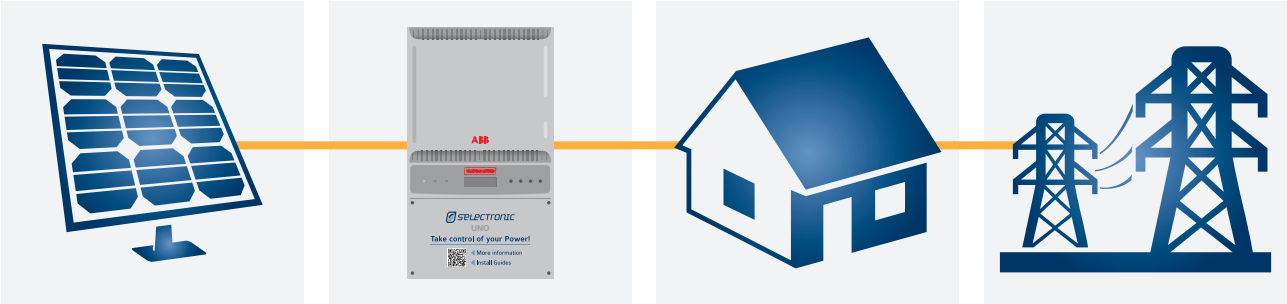
SELECTRONIC CERTIFIED

A cost effective solar installation uses a Selectronic Certified grid-tie inverter to directly supply the household while excess solar power is exported to the grid.

Using a Selectronic Certified grid-tie 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 grid-tie inverter gives you maximum flexibility, now and the into 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.

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



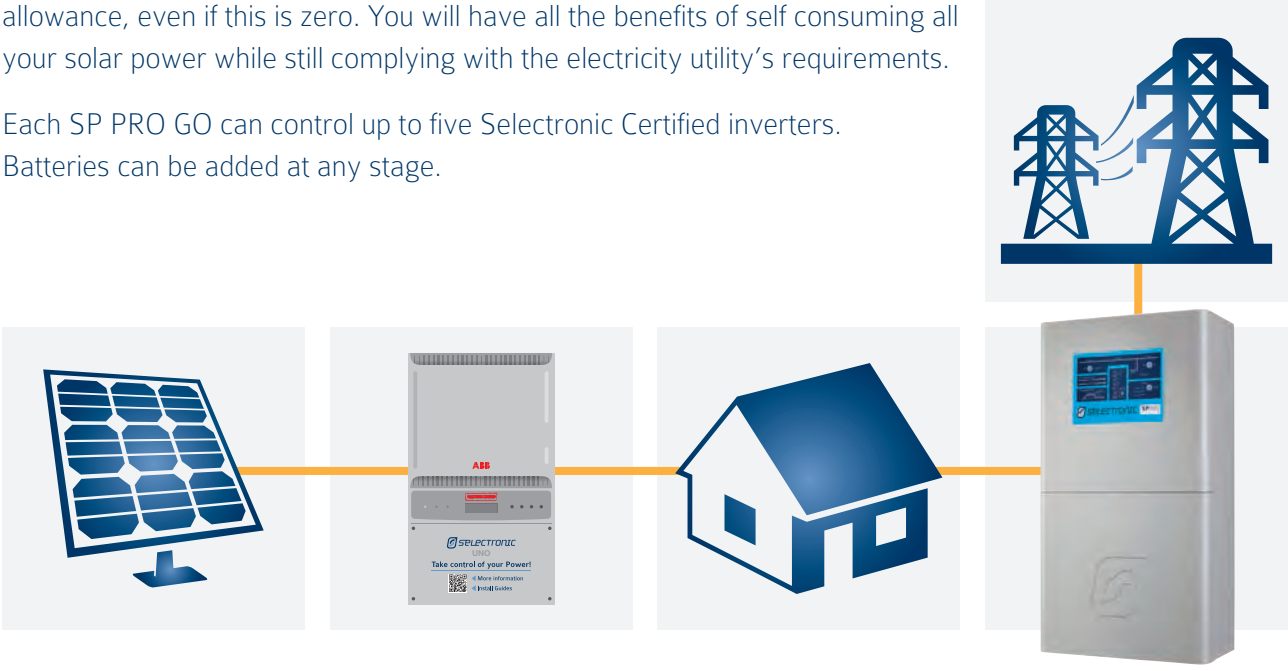
Self Consumption – Utility imposed export limits

It is becoming common place for electricity utilities to not allow solar power to be exported to the grid.

Adding the correct SP PRO GO series to your system ensures that the amount of solar power 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 power while still complying with the electricity utility's requirements.

Each SP PRO GO can control up to five Selectronic Certified inverters. Batteries can be added at any stage.

- Cost Effective
- High Efficiency
- Utility Friendly
- Battery storage compatible

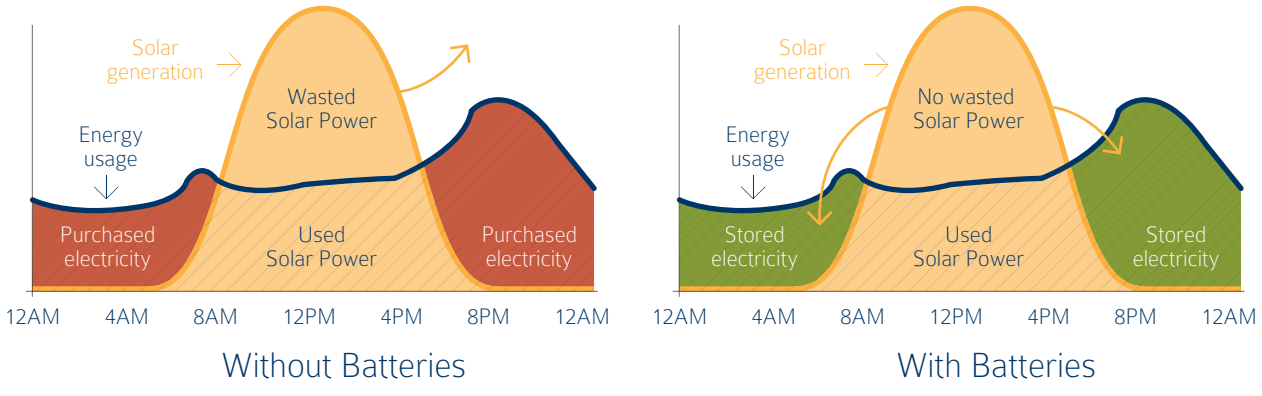


Retrofit existing solar power systems

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 inverter allows you to store any excess solar energy in a battery to use later, instead of exporting it to the grid. Any grid-tie inverter, including micro inverters, can be retrofitted with an SP PRO. If your grid-tie inverter is Selectronic Certified, then more enhanced features within your SP PRO will be available.

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

The benefit of batteries



Without Batteries

With Batteries

The Complete Selectronic Solar Hybrid Solution

Our flagship solution allows you to take control of your power by giving you choice and flexibility over how you use the electricity grid.

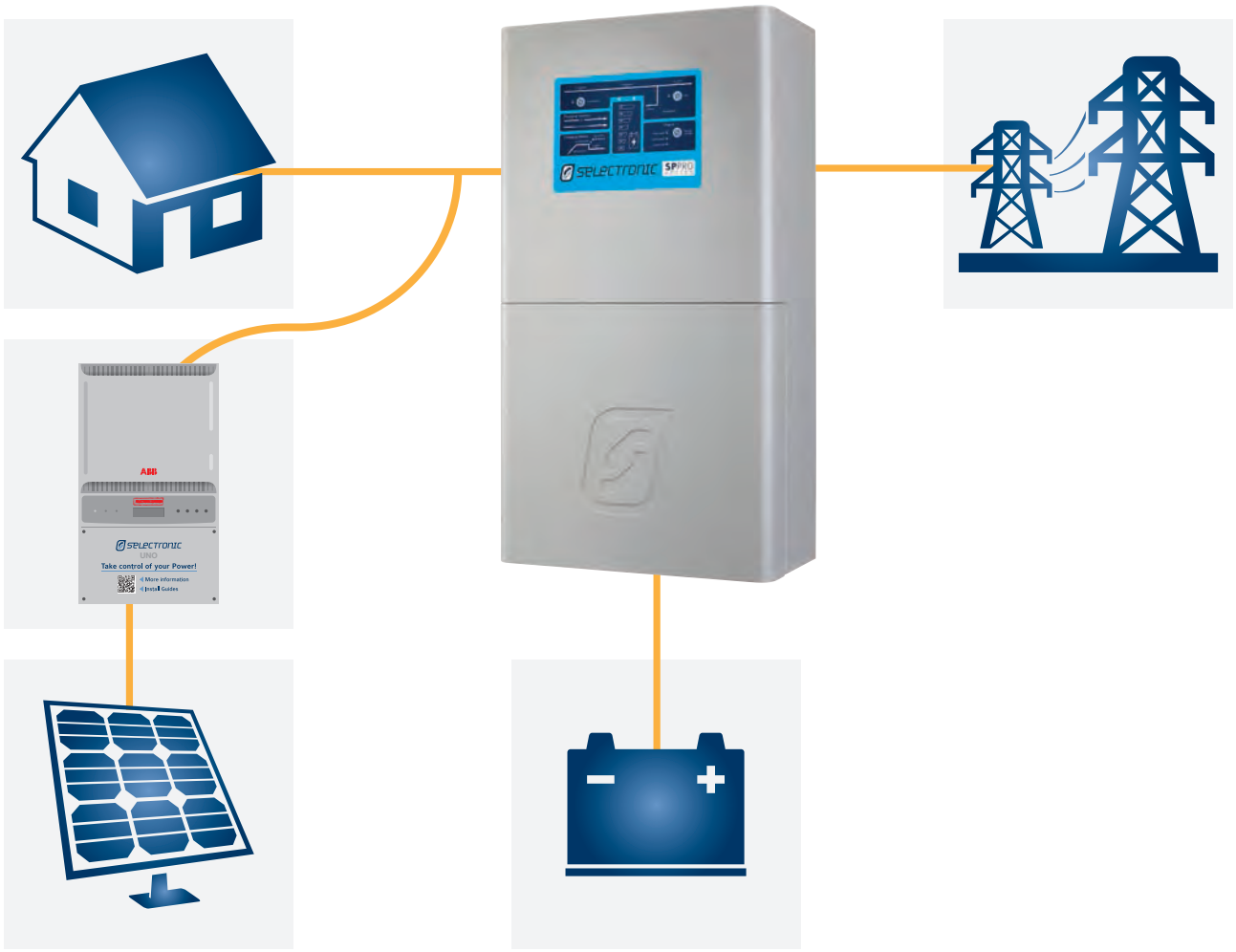
The aim of our Solar Hybrid system is more self-consumption of solar-generated power and less reliance on the grid.

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.

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). Many 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, usage of grid electricity will recommence. Simple, automatic and undetectable.

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.



It’s all possible with the Great Aussie All-Rounder

Intelligent Uninterrupted Power Supply

Our Solar Hybrid system will give you an uninterrupted power supply meaning you are protected from grid outages. Your system will power on through any interruption to the electricity grid - simple, automatic and undetectable.

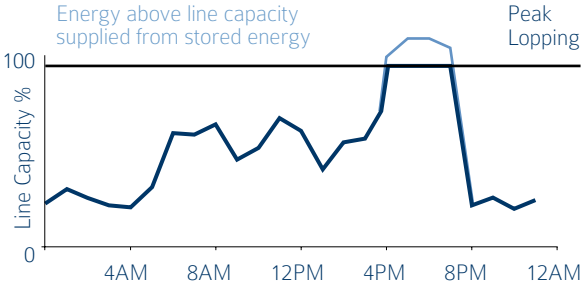
Your solar power will continue to be used by the household and any excess is sent to the battery for later use. If you experience an extended outage, an optional generator controller can be installed to control an auto-start generator that will only start when the battery is depleted.

Simple, automatic, undetectable.

- Self consume all solar power
- 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 panels

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 battery bank.

STELLA
solar storage calculator

Selectronic has developed the STELLA solar storage calculator to help you understand how adding battery storage to a solar power system will impact your use of grid electricity.

Use STELLA to determine the right Selectronic components for your Solar Hybrid system and to understand the basic performance of that system. Scan this QR code to use STELLA or go to: www.selectronic.com.au/stella/

Rich history, feature rich product

Selectronic has been providing energy solutions since 1964 and has designed and manufactured battery-based inverters since 1981. This has resulted in many clever features within the SP PRO giving you more features as standard 'inside the box' than any other inverter charger.

Selectronic inverters are used in installations as diverse as Australian suburban grid-connect systems, off-grid cattle stations in the outback, a remote orangutan eco-lodge in Indonesia and a school in the Himalayan Mountains. Let Selectronic power your world.

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 four months of data logging. Your installer can also be notified of any pending maintenance requirements. There are a number of wired and wireless options allowing you to view and control your system from anywhere in the world.

Relax, we've got you covered

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 in 2008.

Selectronic back this up with a standard warranty that is second to no other battery-based inverter. Up to a 10 year country-dependent warranty is possible, backed by a company that's been around for over 50 years. Now that's something you can trust.

Future Proof

Our SP PRO series is reliable and proven, however new features are continually being added to allow it to stay ahead of your 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.

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

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.

* See separate brochure for myGrid Lithium option.

- Pre-engineered ready to assemble on site
- Matched components
- Batteries from 6.2 kWh to 25 kWh

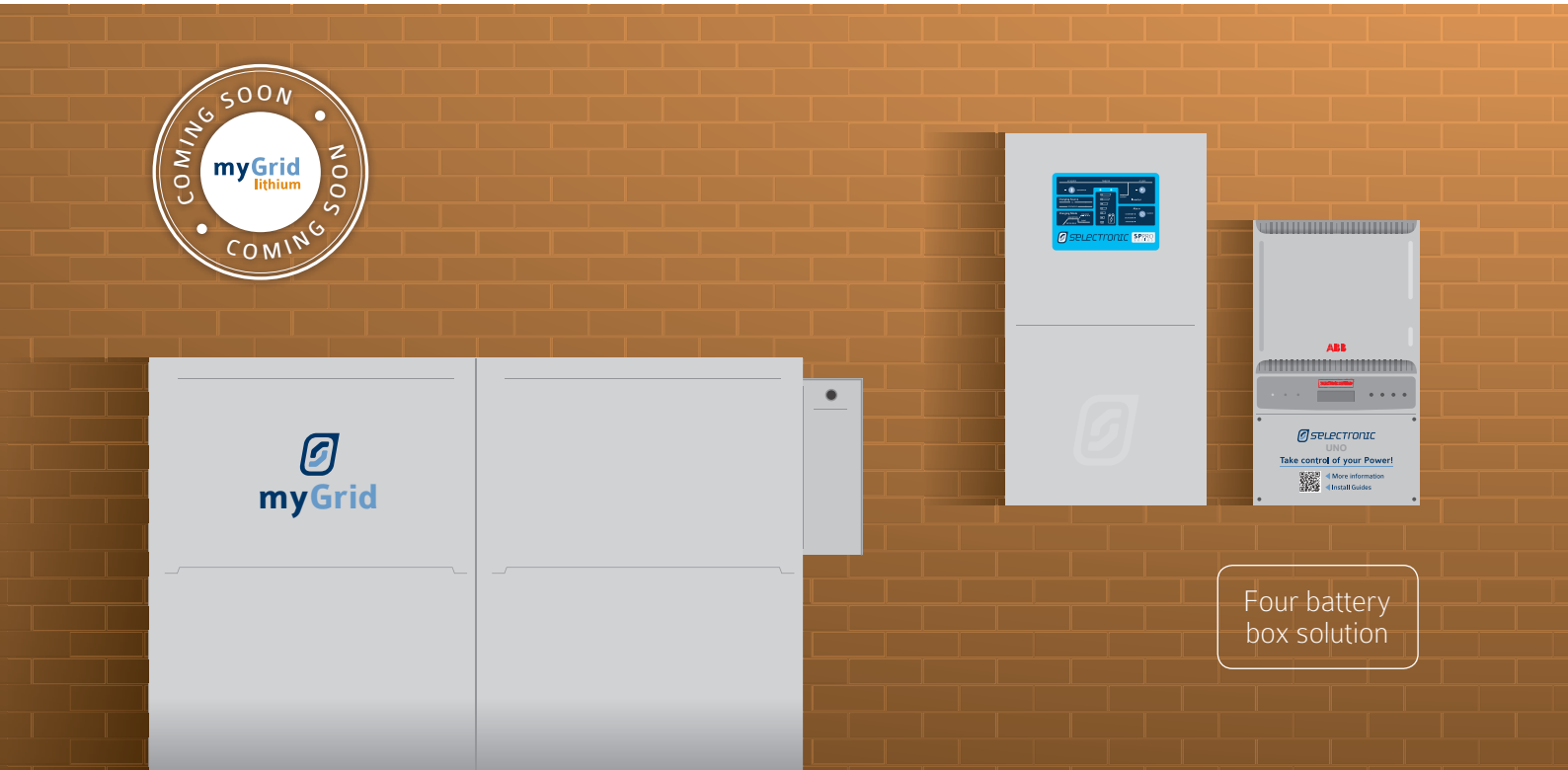
Kit includes:

- High quality German 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 a grid-tie solar power system

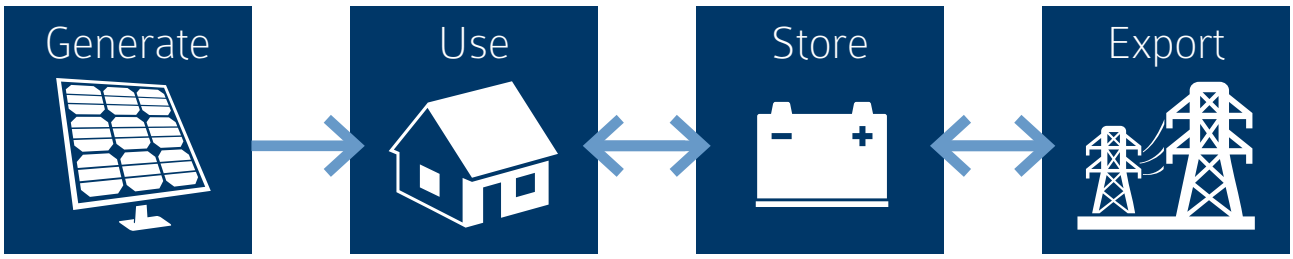
myGrid standard kits for Solar Hybrid systems

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	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	German made sealed lead acid gel battery	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 a deeper discharge of the battery each day will result in a reduction of the battery life. See our website and your system supplier for battery specifications and the expected life of your battery.



Four battery box solution



SP PRO AU Series Specifications (flexible export limiting)

Model	AC Output	Max. solar using Selectronic Certified inverters	Max. solar if retrofitting storage	Battery Charge	Battery Voltage	Warranty
SPMC240-AU	3.0 kW	6.0 kW	3.0 kW	3.0 kW	24 V	3 - 10 Years*
SPMC241-AU	4.5 kW	9.0 kW	4.5 kW	4.5 kW		
SPMC481-AU	5.0 kW	10.0 kW	5.0 kW	5.0 kW	48 V	
SPMC482-AU	7.5 kW	15.0 kW	7.5 kW	7.5 kW		
SPMC1201	7.5 kW	15.0 kW	7.5 kW	7.5 kW	120 V	
SPLC1200	15.0 kW	30.0 kW	15.0 kW	15.0 kW		
SPLC1202	20.0 kW	35.0 kW	20.0 kW	20.0 kW		

SP PRO GO UPS Series Specifications (zero export allowed)

Model	AC Output	Export Power	Battery Charge	Battery Voltage	Warranty
SPMC240-0.0	3.0 kW	0.0 kW	3.0 kW	24 V	3 - 10 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 (factory set export limiting)

Model	AC Output	Max solar using Selectronic Certified inverters	Max. solar if retrofitting solar	Export Power	Battery Charge	Battery Voltage	Warranty
SPMC240-2.0	3.0 kW	6.0 kW	3.0 kW	2.0 kW	3.0 kW	24 V	3 - 10 Years*
SPMC240-2.5	3.0 kW	6.0 kW	3.0 kW	2.5 kW			
SPMC241-2.0	4.5 kW	9.0 kW	4.5 kW	2.0 kW	4.5 kW		
SPMC241-2.5	4.5 kW	9.0 kW	4.5 kW	2.5 kW			
SPMC241-3.0	4.5 kW	9.0 kW	4.5 kW	3.0 kW			
SPMC241-3.5	4.5 kW	9.0 kW	4.5 kW	3.5 kW			
SPMC481-2.0	5.0 kW	10.0 kW	5.0 kW	2.0 kW	5.0 kW	48 V	
SPMC481-3.0	5.0 kW	10.0 kW	5.0 kW	3.0 kW			
SPMC481-4.0	5.0 kW	10.0 kW	5.0 kW	4.0 kW			
SPMC482-2.0	7.5 kW	15.0 kW	7.5 kW	2.0 kW	7.5 kW		
SPMC482-3.0	7.5 kW	15.0 kW	7.5 kW	3.0 kW			
SPMC482-4.0	7.5 kW	15.0 kW	7.5 kW	4.0 kW			
SPMC482-4.9	7.5 kW	15.0 kW	7.5 kW	4.9 kW			
SPMC482-5.0	7.5 kW	15.0 kW	7.5 kW	5.0 kW			
SPMC482-6.0	7.5 kW	15.0 kW	7.5 kW	6.0 kW			
SPMC1201-6.0	7.5 kW	15.0 kW	7.5 kW	6.0 kW		120 V	
SPLC1200-15.0	15.0 kW	30.0 kW	15.0 kW	15.0 kW	15.0 kW		
SPLC1202-20.0	20.0 kW	35.0 kW	20.0 kW	20.0 kW	20.0 kW		

* 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.

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