

# A Grid Backup inverter that provides smarter energy 24/7

# SP

SP PRO SERIES

## Welcome to a world where electricity has no boundaries...

The SP PRO series of Inverters forms the basis of the most innovative and sophisticated Grid connected power systems available today. A high return on investment is possible through tariff optimisation and smarter use of renewable energy

Enter the world of Selectronic SP PRO series.

Reliable electricity should not be considered as a luxury but as an essential part of life today, in our day to day life we need electricity 24/7, not just when grid supply is available.



## Renewable energy plus extra benefits.

An SP PRO inverter will convert electricity stored in batteries from Solar, Wind or Hydro (Renewable Energy) to operate your normal electrical appliances.

Renewable electricity not required to keep the batteries charged, is then exported to the electricity grid to effectively run your meter backwards. It is then likely that your electricity retailer will buy this excess from you at a premium rate, this is called a "Feed In Tariff".

The more electricity you export into the grid, the more money you can make, and the smaller your carbon footprint will be. During night time or times of no solar your AC appliances will be operated directly from the normal electricity grid.

For safety reasons conventional Solar Power Grid systems must turn off when the grid fails, this means your investment of Renewable Energy will be wasted during grid outages. The advanced technology inside the SP PRO allows your electricity supply to seamlessly continue by switching to battery backup mode, allowing you to power your

240 volt loads using the electricity stored in the batteries plus any available Renewable Energy.

Power outages are not uncommon these days; bushfires or floods can cause outages for hours, days or even weeks. With electricity prices increasing rapidly your investment will continue to increase in value.

The complete process is seamless as the SP PRO takes care of everything, including ensuring that your batteries remain fully charged at all times in preparation for the next power outage. Battery charging will first happen using the Renewable Energy, if more charging is needed it will come from the electricity grid when available.

In the event that your batteries have become discharged during a prolonged outage, an optional Generator Controller can start an automatic generator to provide power for the home and charge the batteries. When grid power returns the generator will be turned off automatically.

With an SP PRO you'll never know when the grid has failed, other than all your neighbours will be in the dark.

### TELEPHONE

Make calls to assist in an emergency or just continue to operate your business, mobile phones are often jammed during these times.



### LIGHTING

Have lighting available to keep your family and workplace safe.



### WATER PUMP

Remove water from flooded areas or fight fires to protect your property and home.



### INTERNET

Monitor websites such as emergency services, fire brigade and weather.



### REFRIGERATION

Avoid spoiling medical supplies and other perishable goods.



### RADIO

Monitor important national radio updates.



- URBAN DOMESTIC HOMES
- RURAL HOMES
- FACTORIES
- SHOPS
- INDUSTRY



 SELECTRONIC

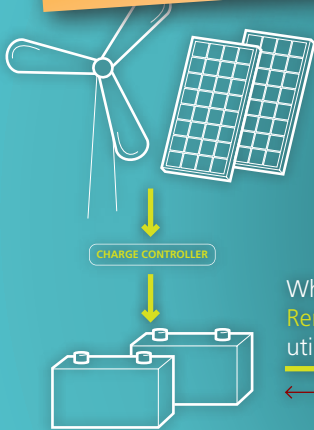
POWER PERFORMANCE PASSION

## Advantages of using an SP PRO

- ✓ Australian designed and manufactured
- ✓ Three phase configurable (3 units)
- ✓ Superior protection using military grade silicone
- ✓ All ratings are real, not made up by marketing people
- ✓ Free SP LINK monitoring software for your PC
- ✓ Easy to read LED display with auto dimming
- ✓ Automatic Service Alerts if maintenance is required



Use our free SP LINK software for instant access to your system performance on your PC

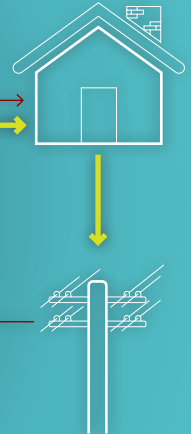


When battery is full, Renewable Energy is utilised by the home



Renewable Energy utilised first, remainder sold to the grid

Automatically utilises Grid when required



SP PRO SERIES SPECIFICATIONS	SPMC 240-AU	SPMC 241-AU	SPMC 481-AU	SPMC 482-AU
Maximum Solar possible	3,300 watts	4,900 watts	5,500 watts	8,200 watts
Solar Panel Voltage	Charge controller dependent			
<b>Grid Feed Power</b>				
24/7	3,000 watts	4,500 watts	5,000 watts	7,500 watts
<b>Backup Power</b>				
24/7	3,000 watts	4,500 watts	5,000 watts	7,500 watts
1 hour	3,200 watts	4,700 watts	5,300 watts	8,000 watts
20 seconds	7,500 watts	10,500 watts	12,000 watts	18,000 watts
Battery voltage	24 volt	24 volt	48 volt	48 volt
Battery capacity required	100 Ah – 10,000 Ah			
Battery recharge capacity from Grid	125 amps	188 amps	104 amps	156 amps
Time to transfer to backup mode	0 – 0.03 seconds			
Maximum transfer from Grid to Loads	63 amps AC, (250 amps AC with optional external contactor)			
Peak efficiency	95%	95%	95.5%	96%
Warranty	5 years standard. 7 years when installed by an SP PRO Accredited Installer, 8 years as part of an SP PLUS Energy Kit			
Approvals	AS/NZS 61000-6-3 2007, AS 62040.1.1-2003, AS 4777 2005 (grid connect)			
Dimensions in mm	345 W x 545 H x 215 D			
Weight	29 kg	34 kg	35 kg	40 kg

### OTHER RESOURCES AVAILABLE:

- SP PRO with Boats and Motorhome
- SP PRO Off Grid
- SP PRO Grid Support
- SP PRO Grid Backup Kits
- SP PRO Full Specifications
- Why use an SP PRO Accredited Installer
- SP PRO Sizing Program

### OPTIONS

- Backup generator controller for prolonged outages.
- External contactor 250Amp for larger AC loads
- Extension Enclosure
- AC Coupling

### YOUR RETAILER:

Through a policy of continual improvement specifications may differ from this brochure. All ratings are at @ 40°C and nominal battery voltage unless otherwise stated. Document No BR0001\_02 Grid Feed Backup. DC Coupled.

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