

The Interactive Advantage – True NO Break power

Unlike many other Inverter Chargers, the PS1 will operate in parallel with a generator or grid electricity. As the generator slowly seizes the load, the PS1 starts to charge the batteries or support the load. The result is True NO Break performance when under PS1 control.

Parallel operation of 2 PS1 units is possible using split AC actives. Enquire for more information.

The real Outback performer

The PS1 has been developed after many years of experience in the hostile and remote environments of outback Australia. This experience, hours of thermal modelling and many hours of field trialling give you the confidence that a PS1 is built to last. The power module has a massive number of ideally placed primary capacitors, these are connected via ultra low impedance 4oz copper circuit board instead of the typical 1oz.

Information, Information

The amount of data stored inside the PS1 is nothing short of amazing. Up to 32 recent alarms are stored for quick viewing on the LCD screen, and up to 200 alarms when viewed using Remote Link software via a computer. This information makes it simple for system interrogation locally or via a modem remotely.

Options

- Modem
- Cable Cover
- Additional 3 yrs warranty – 8 yrs total

PS1 Interactive Inverter Chargers

3,000 watts – 12,000 watts



PS1 Range	PS1 3/24	PS1 5/24	PS1 6/48	PS1 10/48	PS1 11/108	PS1 12/120
Inverter Mode						
Battery voltage nominal	24V DC	24V DC	48V DC	48V DC	108V DC	120V DC
Continuous output power @ 25°C "TRUE POWER"	3kW	5kW	6kW	10kW	11kW	12kW
Max output 30 minutes "TRUE POWER"	3.6kW	6.0kW	7.2kW	12kW	13.2kW	14.4kW
Max output power 5 minutes "TRUE POWER"	4kW	6.5kW	8kW	13kW	13kW	16kW
Max overload 0-5 seconds "TRUE POWER"	5kW	8kW	10kW	16kW	20kW	22kW
Max Surge	6kW	9.6kW	12kW	19.2kW	24kW	26.4kW
Max continuous output-interactive mode	Continuous inverter output + generator output					
Power Save sensitivity range	10-40W					
Output voltage/frequency- invert mode	Adj 220-240v AC +1%/-4%, 50Hz +/-0.1% @ <4% THD					
Interactive Mode						
Changeover time, invert to generator when inverter controlled	Zero					
Load auto switched to generator in fault mode	Yes					
Max adjustable charge rate	0-120A	0-200A	0-120A	0-200A	0-100A	0-100A
No of charge stages / Charger type	4 stages, plus equalise & recovery. Unity PF: 4 state constant I, constant V with current & power limit					
Generator Start Parameters						
	4 x time of day, 3 x state of charge. 2 x adjustable power limits, 4 x back up times.					
	Battery voltage, inverter shutdown. Inverter temperature.					
Generator start method	2 or 3 wire, pulsed or run signal (adj)					
General						
Unit weight/packed weight	58kg/64kg	72kg/78kg	73kg/80kg	87kg/94kg	93kg/100kg	
Dimensions	585mm High x 400mm Wide (430mm incl mounting flanges) x 420mm Deep					
Communications serial interface	RS232 x 2400bps					
Memory retention of settings and logged data	Permanent via on board battery backed RAM & EEPROM					
No. of Shunts	1 x 100A internal, 1 x optional external shunt					
Standards	C tick, AS3100					
Efficiency : Peak	95%	91%	93%	96%	96%	
Minimum generator required	5kVA	8.7kVA	10kVA	15kVA	15kVA	
Enclosure rating	IP40					
On board log	Records over 200 events, alarms and data which can be accessed remotely via serial port/modem with optional Remote Link software. Up to 32 current day events on LCD					
Four line alphanumeric backlit LCD displays:	Configuration parameters, Batt Volts, Nett Batt Amps, AC Load kW, Gen kW/Volts/Freq, Av daily kWh, Shunt 1&2 Amps, Event log, Charge Amps, State of Charge					
Warranty	3 year, or 5 years when installed by a Selectronic PS1 accredited installer plus additional 3 year option					

NOTE: Performance to specifications cannot be guaranteed if the PS1 is operated with generators that are not capable of being synchronised. Check with supplier or Selectronic if unsure.

All ratings are @25°C & unity power factor unless stated otherwise. * No electronic trip on this model. Selectronic reserve the right to change specifications without notice. See our website for full specification. REV4 MAR 2008

Selectronic (Incorporating Power Solutions Aust) have a wealth of experience in providing reliable Inverter solutions to remote and leisure applications.

A 100% Australian owned and operated company, we have been servicing the Australian electronics industry since 1964 and have supplied many thousands of inverters to Australia, NZ and throughout Asia.

Together with our ISO9001 quality accreditation for design and manufacturing, you can be sure our products are engineered to last.



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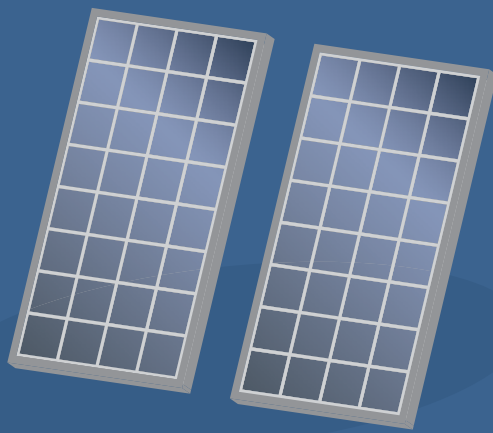
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POWER PERFORMANCE PASSION

The need to provide reliable electricity away from the city has always been challenging, be it village electrification, power for a remote community, a domestic home or a luxury leisure vehicle, high quality electricity is always required.

Together with a battery bank and associated equipment, the new PS1 range now gives you access to a most sophisticated and reliable power source. The PS1 is your complete power and control centre.



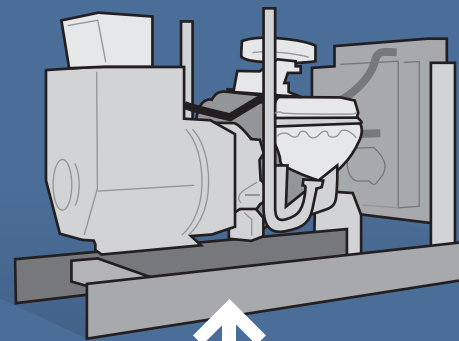
Solar Modules

A 100amp internal shunt allows you to connect solar modules to the PS1 through a separate regulator, the energy can be counted for an accurate battery State of Charge. Solar Modules will reduce generator run times.

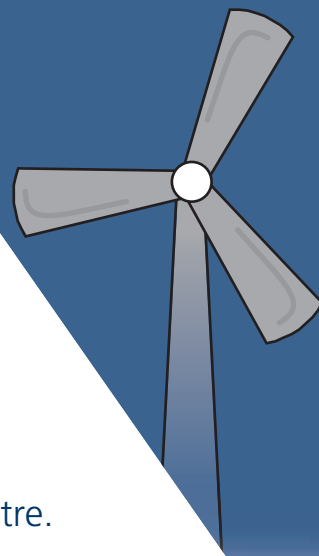
Intelligent generator control—standard

The ability to control an auto start generator is an impressive feature of the PS1. By constantly monitoring a number of key system parameters, the PS1 will start and stop an auto start generator whenever it is required. This process will ensure you have all the power you need.

Sophisticated programming options allow the day to be split into three sections, ensuring your generator is started at peak periods of the day such as meal times and will generally not run during the middle of the night unless essential. An intelligent algorithm within the PS1 ensures your generator is optimally loaded at all times and in the unlikely event of a failure to the power engine inside the PS1, it can start and stop the generator at up to 4 intervals per day to ensure fridges etc can maintain temperature. Using time of day, a generator can be started up to 4 times per day.

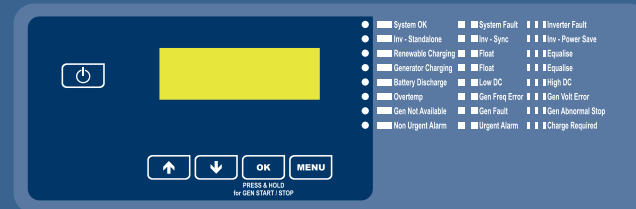
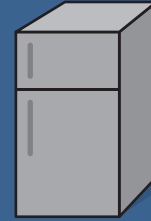


Generator Start Stop Controller



External shunt

Using an external shunt, a DC Load such as a fridge or a pump can be calculated for an accurate State of Charge reading. This shunt can also be programmed for use with another charging source such as a Wind Generator or Hydro generator.

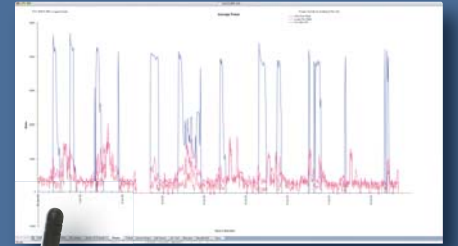


Integrated display

The comprehensive back lit LCD and 8 LEDs provide all the information you need to know for operating and programming your PS1. The thoughtful layout of the LCD screens can show you information such as Battery Volts, Battery Current (charge or discharge), Battery State of Charge % and Load kw's all on one simple screen. All menus are intelligently grouped for easy programming.

System analysis

Using our optional "Remote Link" software a computer can be plugged directly into the RS232 port for careful analysis of performance. Via a modem your system integrator can control, adjust and analyse your PS1 from the convenience of their office.



Optional Remote Link software

Bluetooth Connectivity

If getting a cable from your computer to your inverter is not practical, then our optional Bluetooth kit makes the job easy. This kit will transmit the data wirelessly up to 15m*, or up to 40m* using the optional antenna booster to a Bluetooth enabled PC. Use your PC to download data, start a generator or just keep an eye on your system.

* Conditional upon line of sight.

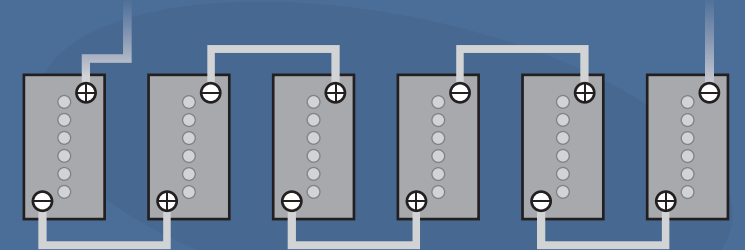


Running your AC load

Inverter power
+
Generator power
=
maximum power available



The PS1 can maintain true NO Break power to the home 24 hours a day. If you require more power than the PS1 can deliver, an auto start generator can be started in order to share the load. When your load reduces, the generator will be stopped. Clever.



Battery bank

Maintaining a healthy State of Charge(SoC) in your batteries is critical to provide maximum life and reliability of the batteries. The PS1 constantly monitors the battery SoC and uses the available energy from renewable sources, a generator or grid electricity to recharge the batteries if the State of Charge drops below a pre set level.