

SP PRO SERIES

The Selectronic SP PRO SERIES has been designed from the ground up with the world market in mind. Using our 25 years of experience in the harsh Australian market, we have developed a product which will suit many different markets including; Off Grid, On Grid with back up, Marine, Mobile and Industrial. Featuring advanced thermal power management and super high speed digital signal processing, new standards have been set for reliability, features, surge capability and power density.

The SP PRO series will act as a low voltage grid feeding inverter and will provide back-up power to the load if grid electricity has failed. The unit can also be configured to operate as an Interactive Inverter Charger, with fast preset configurations for either mobile or remote power system use.



Features

- » Ratings @ 40°C
- » Low distortion sine wave Interactive Inverter Charger with grid feed ability
- » Advanced thermal techniques provide excellent high temperature performance
- » Automatic AC transfer switch with anti-chatter protection
- » Grid feeds with excess renewable
- » "Grid Capacity" setting can allow battery charging "Off Peak"
- » Automatic changeover when grid fails without using a second inverter
- » World leading 300% surge capacity
- » True 100% charge capacity
- » Five stage battery charging with dual float points and adjustable temperature compensation
- » Battery mid point monitoring with automatic equalisation
- » Simple LED display, with the AC LEDs directly powered from the monitored voltage
- » Redundant safety disconnect for pluggable operation
- » Plug and play or fully configurable via computer
- » Eighteen months of logged daily totals
- » Four months of sampled data at 30 minute sample rate
- » Adjustable 30/15/10/5/1 minute sample rate
- » Easy to use configuration/ monitoring software supplied standard
- » "Partial state of charge" control can minimise generator run time
- » Superbly quiet
- » All PCBs conformal coated with mil spec silicone
- » 4 x addressable relay outputs and 3 x digital outputs
- » 4 x addressable digital inputs and 2 x analogue inputs
- » 2 x user definable shunt inputs
- » Low battery shutdown override in case of emergency
- » Discretionary load control
- » External solar regulator bypass function
- » 2 x serial ports with power for accessories
- » Variable speed fan with service alert
- » Lifetime monitored capacitors with service alert
- » Warranty, 5 yrs + 2 for SP PRO accredited installers
- » 100% Australian designed and manufactured
- » Field serviceable modular design*

*Conditions Apply

SP PRO SERIES SPECIFICATIONS		SPMC 240-AU	SPMC 241-AU	SPMC 481-AU	SPMC 482-AU	SPMC 1201-AU	SPLC 1201-AU	
Nominal battery voltage		24 V	24 V	48 V	48 V	120V	120V	
Continuous, output power	@ 40°C	2500 W	3500 W	4000 W	6000 W	6000 W	12000 W	
Continuous, charge current		105 A	145 A	83 A	125 A	50 A	100 A	
Continuous, output power	@ 25°C	2800 W	4000 W	4500 W	7000 W			
Continuous, charge current		105 A	145 A	83 A	125 A			
20 second load rating	@ 40°C	7500 W	10500 W	12000 W	18000 W			
20 second output current		28 A	40 A	47 A	70 A			
1 minute output power	@ 40°C	5400 W	7600 W	8700 W	13000 W			
60 minute output power	@ 40°C	3200 W	4700 W	5300 W	8000 W			
DC input voltage range		20 - 34 V	20 - 34 V	40 - 68 V	40 - 68 V	100 - 170 V	100 - 170 V	
DC input current (stored energy mode)		135 A	175 A	100 A	150 A			
TRANSFER SWITCH (Synchronous)								
AC transfer current capacity		63 A					125A	
Max AC input source, (generator)		15 kVA					30 kVA	
Max total output to Load, AC source + inverter		15 kVA					30 kVA	
AC transfer time		no-break						
If grid fails		two AC cycles						
Battery charger type		5 stage, power factor corrected with dual stage float						
DC consumption idle		6 W						
Standby (adjustable rate)		12 - 20 W					n/a	
ON with no load		31 W	36 W	37 W	40 W			
Peak efficiency – all modes		95%	95%	95.5%	96%			
10% load		90%	90.5%	91%	91%			
20% load		92.5%	93%	94%	94%			
50% load		94%	94.5%	95%	95.5%			
100% load		90%	91%	92.5%	93%			
Max Grid Feed capacity		rated output						
AC OUTPUT standalone (stored energy mode)								
Setting accuracy		210 to 240 V +/- 0.5%						
Regulation		<1% droop 0-100% rated load (<2% @ 150%, <5% @200%, <10% @ 300%)						
THD		<3% @ 0-200% rated load						
Frequency		50 or 60 Hz +/-0.005% standalone						
AC SOURCE (input)								
Nominal voltage		210 to 240 V~						
AC current (Recharge, Bypass & Normal modes)		63 A					125A	
Tolerance on nominal voltage		programmable - 1% to 15%, + 1% to 10%						
Nominal input frequency		50/60Hz						
Tolerance on nominal frequency		programmable +/- 1% to 10%						
Generator can be started by		battery SoC, DC voltage, battery load, unit temperature, time & remote control						
Battery temperature sensor		Yes						
Mid point battery voltage sensing		Yes						
Inverter display		22 x LEDs with auto adjusting intensity. Display indicates, charger status, remaining useable battery capacity, alarms, AC status. AC status LEDs powered from AC voltage. Generator control button. Output mode button. Alarm silence button.						
Digital Inputs		4 off: Max 60 VDC (Active > +6V, Inactive < +3V)						
Shunt Inputs		2 user definable: +/-75mV						
Analogue Inputs		2 general purpose logged 0-60V						
Relay Outputs		4 off: 60 V, 500 mA						
Digital outputs		3 off: 60 V, 5 mA						
Communication ports		2 off RS232 with adjustable baud rate of up to 57600						
Memory retention of settings & data		permanent						
SP LINK configuration and monitoring software		Standard, allows configuration of parameters or customer can view LED display remotely.						
Dimensions (mounted)		345 W x 545 H x 215 D						
Weight		29 kg	34 kg	35 kg	40 kg	40 kg		
Circuit Breakers (AC Source, AC Load)		double pole 63A					single pole 125A	
Standards		EN61000-6-3 2007, AS62040.1.1-2003, AS4777 2005 (grid connect)						
Protection		IP43						
Available		Dec 2009		NOW		TBA	TBA	

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 and correct as at October 2009.

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