

SP PRO SERIES

Using our 28 years of experience in the harsh Australian market, Selectronic have developed one of the most innovative and flexible inverters on the market today, Off Grid, Utility Grid Tie with back up, Marine, Mobile and Industrial. markets can all be accessed with this advanced inverter.

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 Off Grid Interactive Inverter Charger, with fast preset configurations for either mobile or remote power system use.



Features

- » Low distortion sine wave Interactive Inverter Charger with grid feed ability all in one unit
- » True 100% charge capacity
- » World leading surge capacity
- » Superbly quiet
- » Advanced thermal techniques provide excellent high temperature performance
- » Five stage battery charging with dual float points and adjustable temperature compensation
- » Battery mid point monitoring with automatic equalisation
- » Automatic changeover when grid fails without using a second inverter
- » Grid Export
- » Parallel operation with Grid or Generator for increased output
- » Recharge batteries using cheapest utility tariff
- » Automatic AC transfer switch with anti-chatter protection
- » Simple LED display or powerful windows based software.
- » 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 to reduce generator run time whilst maximising PV yield
- » Conformal coated PCBs - 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
- » 2 x serial ports with power for accessories
- » Variable speed fan with service alert
- » Lifetime monitored capacitors with service alert
- » Warranty, 5 years to 7 years (country dependant)
- » 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	@ 25°C	2,800 W	4,000 W	4,500 W	7,000 W	7,000 W	18,000 W	
Continuous, charge current		105 A	146 A	83 A	125 A	50 A	125 A	
Continious grid export power		rated output						
20 second load rating	@ 40°C	7,500 W	10,500 W	12,000 W	18,000 W	18,000 W	28,000 W	
20 second output current		28 A	40 A	47 A	70 A	70 A	110 A	
1 minute output power	@ 40°C	5,400 W	7,600 W	8,700 W	13,000 W	13,000 W	20,000 W	
60 minute output power	@ 40°C	3,200 W	4,700 W	5,300 W	8,000 W	8,000 W	20,000 W	
DC input voltage range		20 - 34 V	20 - 34 V	40 - 68 V	40 - 68 V	100 - 170 V	100 - 170 V	
TRANSFER SWITCH (Synchronous)								
AC transfer current capacity		63 A					125 A	
Max AC input source, (generator/grid)		15 kVA					30 kVA	
Max total output to Load, AC source + inverter		15 kVA					30 kVA	
AC transfer time		no-break						
If grid fails		0 - 0.03 seconds						
Battery charger type		Temperature compensated, 5 stage, power factor corrected with dual stage float						
EFFICIENCY								
DC consumption idle		6 W						
DC consumption standby (Econo Mode)		12 - 20 W					n/a	
ON with no load		31 W	36 W	37 W	40 W	38 W	75 W	
Peak efficiency - all modes		95%	95%	95.5%	96%	96.5%	96%	
10% load		90%	90.5%	91%	91%	91.5%	91%	
20% load		92.5%	93%	94%	94%	94%	94%	
50% load		94%	94.5%	95%	95.5%	96%	95.5%	
100% load		90%	91%	92.5%	93%	93.5%	93%	
AC OUTPUT (standalone)								
Range		210 to 240 V +/- 0.5%						
Regulation		<1% droop 0-100% rated load (<2% @ 150%, <5% @200%)						
THD		<3% @ 0-200% rated load						
Frequency		50 or 60 Hz +/-0.005% standalone						
AC SOURCE (input)								
Nominal voltage		240 V~						
AC current (Recharge, Bypass & Normal modes)		63 A					125 A	
Tolerance on nominal voltage		installer programmable 204 to 264 V~						
Nominal input frequency		50/60 Hz						
Tolerance on nominal frequency		installer programmable +/- 1% to 10%						
Generator can be started by		battery SoC, DC voltage, battery load, unit temperature, time & remote control						
FEATURES								
Battery temperature sensor		Included						
Mid point battery voltage sensing		Included						
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 > +6 V, Inactive < +3 V)						
Shunt Inputs		2 off: +/-75 mV, adjustable 25 A to 500 A						
Analogue Inputs		2 general purpose logged 0-60 V					n/a	
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					520 W x 870 H x 300 D	
Weight		29 kg	34 kg	35 kg	40 kg	40 kg	105 kg	
Circuit Breakers (AC Source, AC Load)		double pole 63 A					single pole 125 A	
Standards		AS 62040.1.1-2003, CE pending						
		AS/NZS 61000-6-3 2007				AS/NZS 61000-6-4 2007		
Grid Protection		AS 4777 2005				AS 4777 2005 pending		
Protection		IP43						
Warranty		5 to 7 years (country dependant)						

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 May 2010
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