



# Take control of your Power!

**Whether the grid is at your doorstep or 1000km away, the SP PRO Bi Directional Inverter charger can control and manage every aspect of your energy needs.**

By incorporating PV Solar, Wind, Hydro or a Diesel Generator, you can be sure you will never be without power.

## Product highlights

- Solar Hybrid (On Grid), Off Grid or Mobile and Marine operation
- Integrated Grid controller, choose from Self Consumption, Battery Storage or cheap electricity rates
- Integrated intelligent Generator controller, maximise system efficiency
- Minimum 63A transfer switch allows entire home to be connected
- Compatible with AC Coupled PV, reduces install costs with higher efficiency
- Easily configurable for Domestic or Commercial applications to maximise return on investment

Single phase or Three phase

3kW up to 120kW

Up to 8 year warranty\*

Backed by Australia's most trusted manufacturer.

**Who says you need the grid.**



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SP PRO SERIES SPECIFICATIONS	SPMC240	SPMC241	SPMC481	SPMC482	SPMC1201	SPLC1202
Continuous Power and Charge Current at nominal DC & AC voltage @ 25 °C	3 kW / 125 A	4.5 kW / 188 A	5 kW / 104 A	7.5 kW / 156 A	7.5 kW / 63 A	20 kW / 167 A
Short Term Ratings @ 25 °C						
30 seconds	7.5 KW	10.5 KW	12 KW	18 KW	18 KW	44 KW
1 minute	5.4 KW	7.6 KW	8.7 KW	13 KW	13 KW	30 KW
30 minute	4.2 KW	6.75 KW	7.0 KW	11.25 KW	11.25 KW	29 KW
60 minutes	3.2 KW	4.7 KW	5.3 KW	8 KW	8 KW	24 KW
Nominal battery voltage	24 V	24 V	48 V	48 V	120 V	120 V
DC input voltage range (V d.c.)	20 - 34	20 - 34	40 - 68	40 - 68	100 - 170	100 - 170
DC consumption: idle	6 W					
Ambient temperature operating range	-10°C to 60°C					
Peak Efficiency	95%	95%	96%	96%	97%	97.2%
<b>AC OUTPUT standalone</b>						
Nominal voltage	240 VAC configurable 210 to 240 VAC					
Regulation (related to 40 °C ratings)	<2.25% droop @ 0-100% (load power) <3.5% @ 150%, <5% @ 200% (load power) <10% @ 300% (load rating)					<0.2% @ 100% <1.0% @ 150% <1.5% @ 200%
THD	<3% @ 0-200% rated load					
Frequency	50 or 60 Hz +/-0.005% standalone					
<b>AC SOURCE</b>						
Nominal voltage	210 to 240 V a.c.					
Tolerance on nominal voltage	configurable: - 1% to -15%; + 1 to +10%					
Nominal input frequency	50/60Hz					
Tolerance on nominal frequency	configurable +/- 1% to 10%					
Generator can be started by:	battery SoC, DC voltage, battery load, unit temperature, time & remote control					
<b>TRANSFER CONTACTOR</b>						
AC transfer current capacity (internal)	63 A					125 A
AC transfer current capacity (external)	Control provided by an optional 250A external contactor					
Max AC input source, (generator or grid) W	15 kW*					30 kW*
Max total output to Load, AC source + inverter	15 kW* + inverter rating					30 kW*
AC transfer time	"no-break" (< 1/2 cycle)					
Disconnect time if grid (source) fails	<= 30 ms					
DC Circuit Breakers	-					2 pole 250A
Operating Temperature Range	-10 °C to 60 °C					
Storage Temperature Range	-25 °C to 70 °C					
Max Grid Feed capacity	rated output (2 x rated output for KACO Managed AC Coupled)					
Battery temperature sensor	Yes					
Mid point battery voltage sensing	Yes					
Inverter display	22 x LEDs with auto adjusting intensity. display indicates, charger status, useable battery capacity remaining, alarms, AC status. AC status LEDs powered from AC voltage. Generator control button, On button, Alarm silence button.					
Digital Control Inputs	4 off, 12V to 60V True, < 3V False					
Shunt Inputs	Two user definable: Suitable for current shunts rated at 25mV - 100mV and 25 A - 500 A					
Analogue Inputs	2 general purpose logged 0-60V					-
Relay Control Outputs	4 off: 60 V, 500 mA					
Digital Control Outputs	3 off: 60 V, 5 mA					
Communication Port 1	USB (slave) or RS232 or 3-phase sync (adjustable baud rate of up to 57,600)					
Communication Port 2	RS485 or RS232 (adjustable baud rate of up to 57600)					
AC Coupling	Managed KACO / Generic					
PWM modulation frequency	20 kHz					
Memory retention of settings	permanent					
Memory retention of logged data	permanent					
Data Storage	Up to 2.5 years					
SP LINK configuration and monitoring software	standard					
Dimensions h x w x d (mm) (d = front to mounting surface)	690 x 375 x 220					870 x 540 x 290
Mass (unpacked with wall mount)	35 kg	39 kg	40 kg	42 kg	42 kg	115 kg
<b>STANDARDS</b>						
Safety (UPS)	IEC 62040-1-1:2002 / AS 62040-1-1:2003 with CB certificates					
EMC (Domestic limits)	EN 61000.6.3:2007					-
EMC (Industrial limits)	-					EN 61000.6.4:2007
Grid Connect	AS4777.2:2005, AS4777.3:2005					
Certification	Certificate of Suitability, Click					
Protection	IP43					
Warranty	3 - 8 years (country dependent)* * when installed by a Selectronic Accredited Installer					

To find out more, call us at + 61 3 9727 6600  
 Selectronic Australia Pty Ltd  
 www.selectronic.com.au



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