



 **SELECTRONIC**

**SP PRO**  
series

SPMC240-AU  
SPMC241-AU  
SPMC481-AU  
SPMC482-AU  
SPMC1201  
**NEW** SPLC1200  
SPLC1202

# SP PRO SERIES

## A smarter bi-directional inverter charger

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
- 63A or 125A AC transfer contactor standard
- 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.

\*Conditions apply see website for details

Independence | Peace of mind | Reliability | Flexibility

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# SP PRO SERIES SPECIFICATIONS

		SPMC240-AU	SPMC241-AU	SPMC481-AU	SPMC482-AU	SPMC1201	SPLC1200	SPLC1202	
<b>AC OUTPUTS</b>									
Maximum Export Power		rated output (2 x rated output for KACO Managed AC Coupled)							
Max AC output from batteries:	Continuous	3.0 kW	4.5 kW	5.0 kW	7.5 kW	7.5 kW	15.0 kW	20.0 kW	
	60 minutes	3.2 kW	4.7 kW	5.3 kW	8 kW	8 kW	18 kW	24 kW	
	30 minute	4.2 kW	6.75 kW	7.0 kW	11.25 kW	11.25 kW	23 kW	30 kW	
	1 minute	5.4 kW	7.6 kW	8.7 kW	13 kW	13 kW	26 kW	35 kW	
	30 seconds	7.5 kW	10.5 kW	12 kW	18 kW	18 kW	33 kW	44 kW	
Max total output to Load, AC source + inverter		15 kW + inverter rating <sup>2</sup>					30 kW <sup>2</sup>		
Nominal voltage (true sine wave)		240 V AC configurable 210 to 240 V AC							
Total harmonic distortion		<3% @ 0-200% rated load							
Frequency		50 or 60 Hz +/-0.005% No Grid							
<b>AC INPUTS</b>									
Nominal voltage		210 +/- 15% to 240 +/- 10% V AC							
Nominal input frequency		50/60Hz configurable +/- 1% to 10%							
AC transfer current capacity		63 A <sup>3</sup>					125 A <sup>3</sup>		
Max AC input source, (generator or grid)		15 kW <sup>4</sup>					30 kW <sup>4</sup>		
AC transfer time		typical < 1/2 cycle							
Max charging from Grid		3.0 kW	4.5 kW	5.0 kW	7.5 kW	7.5 kW	15.0 kW	20.0 kW	
<b>DC INPUTS</b>									
Rated DC input / DC voltage range (V DC)		24 V / 20 - 34		48 V / 40 - 68			120 V / 100 - 170		
Battery capacity (range)		up to 10,000 Ah							
<b>EFFICIENCY</b>									
Peak Efficiency		95%	95%	96%	96%	97%	97.2 %	97.2%	
DC consumption: idle		6 W							
<b>GENERAL</b>									
Disconnect time if grid (source) fails		<= 30 ms							
DC Circuit Breakers internal		-					2 pole 250A		
Operating Temperature Range		-10 °C to 60 °C							
Inverter display indicators		Charger status, Charge source, Usable battery capacity remaining, Alarms, AC status.							
Renewable charging source		KACO Managed AC Coupled, DC Renewable charge controller or Generic AC Coupled <sup>1</sup>							
Data logging storage		Up to 2.5 years							
SP LINK configuration and monitoring software		Included as standard							
Ambient temperature operating range		-10°C to 60°C							
<b>FEATURES</b>									
Battery temperature / Mid point battery voltage		Yes / Yes							
Control Inputs		4 of, 12V to 60V True, < 3V False							
Shunt Inputs		Two user definable: Suitable for 25 A - 1000 A current shunts at 25mV - 100mV							
Analogue Inputs		2 general purpose logged 0-60V					-		
Relay Control Outputs		Relay: 4 of: 60 VDC, 500 mA / Digital: 3 off: 60 VDC, 5 mA							
Communication Port 1		USB (slave) or RS232 (adjustable baud rate of up to 57600)							
Communication Port 2		RS485 KACO Link or RS232 (adjustable baud rate of up to 57600)							
Dual, Split & Three Phase compatible		Yes with an SP PRO on each phase							
Warranty		3 - 8 years (conditions apply see website for details)							
<b>STANDARDS</b>									
Safety (UPS)		IEC 62040-1-1:2002 / AS 62040-1-1:2003							
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, Ctick, Ergon/Energex Standard							
Protection		IP43							
<b>OPTIONS</b>									
Generator Backup On Grid / Off Grid		Using optional Grid Fail Gen backup module / Yes - Standard					- / Yes - Standard		
<b>WEIGHTS &amp; DIMENSIONS</b>									
Weight: Packed / Unpacked with wall mount		39 kg / 35 kg	45 kg / 39 kg	45 kg / 40 kg	54 kg / 42 kg	52 kg / 42 kg	160 kg / 113 kg	163 kg / 115 kg	
Dimensions: Packed / Unpacked h x w x d (mm)		810 x 500 x 350 / 690 x 375 x 220					1080 x 740 x 650 / 870 x 540 x 290		

<sup>1</sup> Where AC rating of Generic inverter does not exceed the Maximum AC Grid Feed Power of the SP PRO

<sup>2</sup> 60 kW + inverter rating with optional external contactor

<sup>3</sup> 250 A with optional external contactor

<sup>4</sup> 60 kW with optional external contactor

All specifications at 25°C and rated DC input voltage except where otherwise stated. Specifications may change without notice see website.