

## SP PRO AU Series



A smarter bi-directional inverter charger.

Whether you live off-grid, on-grid and want to add storage, or on-grid and want to move off-grid, the SP PRO bi-directional inverter charger can control and manage every aspect of your energy needs.

By incorporating solar, wind, hydro or a diesel generator with batteries, you can be sure you will never be without power.

### Product Highlights

- Australian designed and manufactured
- Off-grid and Solar Hybrid (grid backup and grid feed), marine and mobile operation
- More features included as standard 'inside the box' than any other inverter charger
- AC or DC coupling compatible
- Retrofit existing systems
- Easily configurable for domestic and commercial applications
- Integrated generator controller to maximise system efficiency
- AC continuous load power from 3 kW to 60 kW
- Single, dual or three phase
- 63A or 125A transfer contactor standard
- Comprehensive after-sales support
- Up to 10 year warranty\*

\* Conditions apply see website for details

### SP PRO AU Series models

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

Grid Independence | Outstanding Reliability | Ultimate Flexibility

+61 3 9727 6600 | [www.selectronic.com.au](http://www.selectronic.com.au) | [facebook.com/SelectronicAustralia](https://facebook.com/SelectronicAustralia)

# SP PRO AU Series Specifications



	SPMC240-AU	SPMC241-AU	SPMC481-AU	SPMC482-AU	SPMC1201	SPLC1200	SPLC1202
<b>AC OUTPUTS</b>							
Maximum Export Power	Continuous output (2 x continuous output for Selectronic Certified Managed AC Coupled)						
Maximum AC Load Power from batteries: 30 seconds	7.5 kW	10.5 kW	12.0 kW	18.0 kW	18.0 kW	33.0 kW	38.0 kW
1 minute	5.4 kW	7.6 kW	8.7 kW	13.0 kW	13.0 kW	26.0 kW	35.0 kW
30 minutes	4.2 kW	6.75 kW	7.0 kW	11.25 kW	11.25 kW	23.0 kW	30.0 kW
60 minutes	3.2 kW	4.7 kW	5.3 kW	8.0 kW	8.0 kW	18.0 kW	24.0 kW
Continuous	3.0 kW	4.5 kW	5.0 kW	7.5 kW	7.5 kW	15.0 kW	20.0 kW
Max total output to Load, AC source + inverter	15 kW + inverter rating <sup>2</sup>					30 kW <sup>2</sup>	
Nominal voltage Off Grid	240 V AC configurable 210 to 240 V AC						
Total harmonic distortion Off Grid	<3% @ 0-200% rated load						
Frequency Off Grid	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> / 15 kW					125 A <sup>3</sup> / 30 kW	
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 or Generator	3.0 kW / 125 A	4.5 kW / 187 A	5.0 kW / 104 A	7.5 kW / 156 A	7.5 kW / 62 A	15.0 kW / 125 A	20.0 kW / 166 A
<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 (AC 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	Managed AC coupling with any Selectronic Certified single phase inverter, 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>							
Generator Backup	Inbuilt for off-grid systems. Optional for on-grid systems using our Grid Fail Backup module.					Inbuilt for off-grid systems	
Battery temperature / Mid point battery voltage	Yes / Yes						
Battery Compatibility	Highly configurable battery charging set points allow integration with many battery chemistries including lithium.						
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 of 60 VDC, 5 mA						
Communication Port 1	USB (slave) or RS232 (adjustable baud rate of up to 115200)						
Communication Port 2	RS485 or RS232 (adjustable baud rate of up to 115200)						
Dual, Split & Three Phase compatible	Yes with an SP PRO AU on each phase						
Warranty	3 - 10 years (conditions apply see website for details)						
<b>STANDARDS</b>							
Safety - Uninterruptible Power Supply (UPS)	IEC 62040-1-1:2002 / AS 62040-1-1:2003						
Safety - Power converters used in PV Systems	IEC 62109-1 and IEC 62109-2						
EMC (Domestic limits)	EN 61000.6.3:2007					-	
EMC (Industrial limits)	-					EN 61000.6.4:2007	
Grid Connect	AS4777.2:2015						
Certification	Certificate of Suitability, Ctick						
Protection	IP43						
<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 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.