



## SP PRO Series 2i

The world's smartest bi-directional inverter charger now comes with built-in advanced communications as standard.

Whether you live (or want to live) off-grid, or on-grid and want to add battery storage, the SP PRO bi-directional inverter charger can control and manage every aspect of your energy needs. By incorporating solar, wind, hydro, with a diesel generator and/or grid supply, you can be sure your whole site will never be without power.

### Product Highlights

- ☑ **NEW!** Advanced Communications as standard, for multi-phase system operation and managed battery interfacing
- ☑ **NEW!** AC Coupling recovery mode to easily recharge from AC Coupled PV
- ☑ **NEW!** Demand Response Modes (DRM 0 - 8)
- ☑ **NEW!** AS4777 Power Quality Modes
- ☑ **NEW!** SMPC480 3.5kW model
- ☑ Australian designed and manufactured
- ☑ More features included as standard 'inside the box' than any other inverter charger
- ☑ Off-grid and Solar Hybrid (grid backup and grid feed), marine and mobile operation
- ☑ 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
- ☑ 63A or 125A transfer contactor standard
- ☑ Up to 10 year warranty\*



\* Conditions apply see website for details



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 Series 2i Specifications



	SPMC240-AU	SPMC241-AU	SPMC480-AU	SPMC481-AU	SPMC482-AU	SPMC1201	SPLC1200	SPLC1202
<b>AC OUTPUTS</b>								
Maximum Export Power	Continuous AC output (2 x continuous AC output for SelectSun & Selectronic Certified Managed AC Coupled)							
Maximum AC Load Power from batteries: 30 secs	7.5 kW	10.5 kW	8.4 kW	12.0 kW	18.0 kW	18.0 kW	33.0 kW	38.0 kW
1 minute	5.4 kW	7.6 kW	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	5.25 kW	7.0 kW	11.25 kW	11.25 kW	23.0 kW	30.0 kW
60 minutes	3.2 kW	4.7 kW	3.7 kW	5.3 kW	8.0 kW	8.0 kW	18.0 kW	24.0 kW
Continuous	3.0 kW	4.5 kW	3.5 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>1</sup>						30 kW <sup>1</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>2</sup> / 15 kW						125 A <sup>2</sup> / 30 kW	
Max AC input source, (Generator or Grid)	15 kW <sup>1</sup>						30 kW <sup>1</sup>	
Switching time between grid/generator & batteries	less than 0.03 seconds							
Max charging from Grid or Generator	3.0 kW / 125 A	4.5 kW / 187 A	3.5 kW / 73 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%	95%	96%	96%	97%	97.2%	97.2%
DC consumption: idle	6 W							
<b>GENERAL</b>								
Ambient Temperature Operating 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 SelectSun, Selectronic Certified single phase inverter, DC Renewable charge controller, generic AC coupled <sup>3</sup>							
Data logging storage	Up to 2.5 years							
SP LINK configuration and monitoring software	Included as standard							
Internet Monitoring	Select.live (optional)							
<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 most battery chemistries including lithium. Please refer to <a href="http://www.selectronic.com.au">www.selectronic.com.au</a> for details on current compatible managed battery brands and models.							
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 Ports	USB (Type B) and RS232 (concurrent operation)							
Control Ports	CANbus, RS485, DRM, SYNC							
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	AS/NZS 4777.2:2015, IEC 62116:2014							
Certification	Certificate of Suitability, RCM							
Protection	IP43							
<b>WEIGHTS &amp; DIMENSIONS</b>								
Weight: Packed / Unpacked with wall mount	37 kg / 33 kg	43 kg / 39 kg	37 kg / 33 kg	44 kg / 40 kg	47 kg / 43 kg	47 kg / 43 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> 240 kW with optional external contactor

<sup>2</sup> 1000 A with optional external contactor

<sup>3</sup> Where AC rating of generic inverter does not exceed the Maximum AC Grid Feed Power of the SP PRO

All specifications at 25°C and rated DC input voltage except where otherwise stated.