

The SP PRO series of bi-directional inverter chargers is one of the most flexible and intelligent available in the market today. A modular approach can handle systems up to 240kW in 20kW blocks, whilst using sophisticated communications can manage up to 480kW of AC Coupled PV.

Battery Voltages of 24V, 48V and 120V are accommodated. Additionally, by incorporating unlimited DC Coupled solar, wind, back up generator or a grid supply,\* our ethos of never being without power is always met.

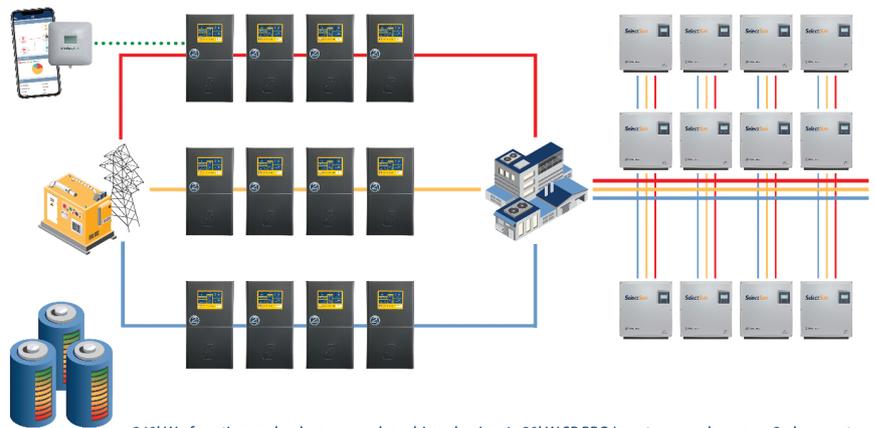


The same SP PRO is suitable for both Off-Grid and Solar Hybrid (On-Grid) installations for residential, commercial and industrial applications. Our inverters provide true transition from an On-Grid to an Off-Grid system (and vice versa) with a simple on-site setting change.

Selectronic inverters have been made in Australia since 1981 and since then have powered 1000's of sites from the tropics of Indonesia, the mountains of the Himalayas, the deserts of UAE, the outback of Australia and on suburban homes throughout the world. In fact, nobody has more experience in this market sector than Selectronic.

At Selectronic, we strive for the lowest total cost of ownership. New firmware releases are generally backward compatible ensuring systems are not placed in a redundant technology corner. Engineers and Installers are supported by people who talk your language, understanding power systems with a breadth of knowledge and experience that you require.

Selectronic has you covered with world renowned inverters that offer grid independence, proven reliability, and now with MODBUS RTU ultimate flexibility, retrofit capability and class leading warranties.



240kW of continuous load power can be achieved, using 4x 20kW SP PRO inverters per phase on a 3 phase system



- Australian owned, designed and manufactured
- More features included as standard 'inside the box' than any other inverter charger
- AC continuous load power from 3kW to 240kW, with up to 480kW of managed PV
- Up to 4 SP PRO inverters per phase - Single Phase, Dual Phase or 3 Phase
- Off-grid and Solar Hybrid\* (grid backup and grid feed), marine and mobile operation
- All output ratings are Continuous 24/7
- Lithium, Lead Acid, Lead Carbon and Flow battery compatible
- MODBUS RTU
- Easily configurable for domestic and commercial applications
- Inbuilt configuration wizard for super fast setup
- AC Coupling recovery mode to easily recharge from AC Coupled PV
- AC or DC Coupling compatible
- Retrofit existing systems
- Integrated generator controller to maximise system efficiency
- 63A or 125A internal transfer contactor standard, or up to 1000A per phase External
- Up to 10 year warranty\*\*

\*On Grid connection only applies to SPMC480-AU, SPMC481-AU, SPMC482-AU, SPLC1200 and SPLC1202

\*\* Conditions apply see website for details

## Manufacturing in Australia Since 1964

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# SP PRO Series 2i Specifications

SP PRO MODEL No.	SPMC240-AU	SPMC241-AU	SPMC480-AU	SPMC481-AU	SPMC482-AU	SPMC1201	SPLC1200	SPLC1202
<b>AC OUTPUTS</b>								
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>	
Off Grid - Nominal voltage / Total harmonic distortion	240 V AC configurable 210 to 240 V AC / <3% @ 0-200% rated load							
Frequency Off Grid	50 or 60 Hz +/-0.005% No Grid							
Maximum Export Power to the Grid using managed PV	6.0 kW	9.0 kW	7.0 kW	10.0 kW	15.0 kW	15.0 kW	30.0 kW	40.0 kW
Total Rating of PV inverters (Maximum of 5)	6.0 kW	9.0 kW	7.0 kW	10.0 kW	15.0 kW	15.0 kW	30.0 kW	40.0 kW
<b>AC INPUTS</b>								
Nominal voltage	210 +/- 15% to 240 +/- 10% V AC							
Nominal input frequency	50 Hz +/- 1% to 10% (60 Hz on request)							
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 60,000 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>							
Maximum No. of units per phase when islanded	4							
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), CANbus, RS485, DRM,							
Supported Protocols	MODBUS RTU (via RS485)							
Dual, Split & Three Phase compatible	Yes with an SP PRO AU on each phase							
Warranty	5 years international standard warranty, 5 -10 years warranty for Australia and New Zealand (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 4777.2:2020 Stand Alone (SPMC480-AU, SPMC481-AU, SPMC482-AU, SPLC1200 and SPLC1202 only), IEC 62116:2014 (all models)							
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.