



The SP PRO grid-forming battery inverter is one of the most versatile and intelligent on the market. With custom Selectronic solutions, it enables properties to achieve true Off-Grid capability and complete site electrification.



Australian-owned, designed, manufactured, and supported since 1964 giving us the most experience & clocked hours of energy conversion globally. We have powered thousands of sites from regional to fringe-of-grid to on-grid homes and commercial properties.



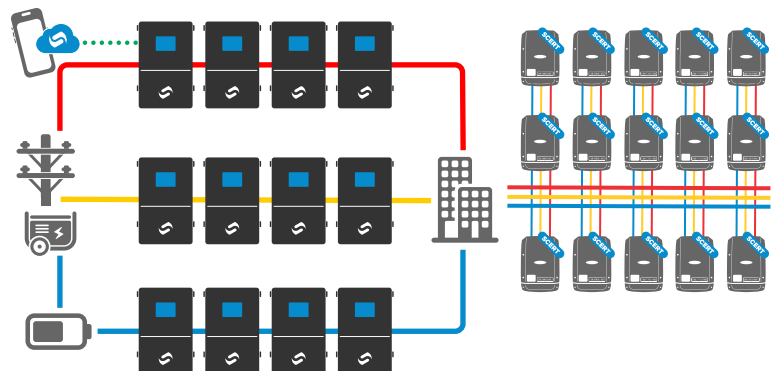
**Versatility:** Our inverters provide a true transition from an On-Grid Solar Hybrid to an Off-Grid system (and vice versa). The SP PRO is a world-renowned inverter that offers grid independence, proven reliability, ultimate flexibility and retrofit capability.



**Future-Proof:** At Selectronic, we strive for the lowest total cost of long-term ownership. New firmware updates are typically backward compatible. When incorporating unlimited DC Coupled solar, wind, backup generator or a grid supply,\* our ethos of **Power On** is always met.



**Battery Nerds Unite!** Engineers and installers are supported by professionals who speak your language and understand power electronic systems with the breadth of knowledge and experience that you require & expect.



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

<b>SP PRO Variants</b>	Managing Batteries of 24V, 48V & 120V
<b>AC continuous load</b>	3kW to 240kW (24/7)
<b>Maximum Inverters (Per Phase)</b>	4 x SP PRO's   Single - Dual - Split - 3-phase
<b>Applications</b>	Off-Grid & On-Grid* (Grid backup & Grid Feed), Boating and Caravanning
<b>Battery Compatibility</b>	Managed or self-managed Lithium, Lead acid or Lead Carbon
<b>Coupling &amp; Retrofits</b>	AC Coupling or DC Coupling Compatible
<b>Max Managed AC Coupled Solar</b>	480kW
<b>Generator Input</b>	Yes & Inbuilt Integrated Generator Controller
<b>Internal Transfer Contactor</b>	63A or 125A Standard   Up to 1000A per phase external
<b>Warranty</b>	5 Years + 5 Years (When Monitoring Registered)

\*On Grid connection only applies to SPMC480-AU, SPMC481-AU, SPMC482-AU, SPLC1200 and SPLC1202  
 \*\*Conditions apply see website for detail

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	7.5kW	10.5kW	8.4kW	12.0kW	18.0kW	18.0kW	33.0kW	33.0kW	
1 minute	5.4kW	7.6kW	6.0kW	8.7kW	13.0kW	13.0kW	26.0kW	35.0kW	
30 minutes	4.2kW	6.75kW	5.25kW	7.0kW	11.25kW	11.25kW	23.0kW	30.0kW	
60 minutes	3.2kW	4.7kW	3.7kW	5.3kW	8.0kW	8.0kW	18.0kW	24.0kW	
Continuous 24/7	3.0kW	4.5kW	3.5kW	5.0kW	7.5kW	7.5kW	15.0kW	20.0kW	
Max total output to Load	15.0kW <sup>1</sup> + SP PRO continuous rating + solar inverter output						30.0kW <sup>1</sup> + SP PRO + solar inverter		
Nominal AC Voltage - Total harmonic distortion when SP PRO is grid forming	240V AC configurable 210 to 240V AC / <3% @ 0-200% rated Load								
Frequency when SP PRO is grid forming	50 or 60Hz +/-0.005% No-Grid								
Max Export to grid using Selectronic Certified solar inverters / generic solar Inverters <sup>3</sup> per phase	Not Applicable	Not Applicable	7.0kW / 3.5kW	10.0kW / 5.0kW	15.0kW / 7.5kW	Not Applicable	30.0kW / 15.0kW	40.0kW <sup>2</sup> /20.0kW	
Max rating of managed AC Coupled solar (SCERT) per SP PRO	6.0kW	9.0kW	7.0kW	10.0kW	15.0kW	15.0kW	30.0kW	40.0kW	
<b>AC INPUTS</b>									
Nominal input voltage (range) from grid or generator	210 to 240V (+10%, -25%)								
Nominal input frequency from grid or generator	50Hz +/- 10%								
Max input from grid or generator, internal contractor	63A <sup>1</sup> / 15.0kW <sup>1</sup>						125A <sup>1</sup> / 30.0kW <sup>1</sup>		
Switching time between grid / generator & batteries	Less than 0.03 seconds								
Max continuous battery charging	3.0kW / 125A	4.5kW / 187A	3.5kW / 73A	5.0kW / 104A	7.5kW / 156A	7.5kW / 62A	15.0kW / 125A	20.0kW / 166A	
<b>DC INPUTS</b>									
Nominal DC input / DC voltage start-up range (V DC)	24V / 20 - 34		48V / 40 - 68			120V / 100 - 162			
Maximum battery capacity	1.5MWh		3.0MWh			7.5MWh			
<b>EFFICIENCY</b>									
Peak Efficiency	95%	95%	95%	96%	96%	97%	97.2%	97.2%	
DC consumption: idle	6W								
<b>GENERAL</b>									
Ambient temperature operating range	-10°C to 60°C								
Inverter display indicators	Charger status, charge source, usable battery capacity remaining, Alarms - Generator, Grid and AC load status								
Renewable charging source	Managed AC Coupling with any Selectronic Certified solar inverter, any DC charge controller with shunt, generic AC Coupled solar inverter								
Maximum No. of SP PRO's per phase	4								
Data logging storage	Up to 2.5 years								
SP LINK configuration and monitoring software	Included as standard								
Internet monitoring portal	Select.live (optional)								
<b>FEATURES</b>									
Generator backup connectivity and control	Inbuilt for Off-Grid. Optional for On-Grid using our Grid Fail Backup module					Inbuilt for Off-Grid systems			
Battery temp sense	Yes								
Smart capacitor charging	Yes								
Battery compatibility	Configurable for most battery chemistries including self managed Lithium and compatible managed Lithium, lead acid and lead carbon. See <a href="http://www.selectronic.com.au">www.selectronic.com.au</a> for details.								
Digital control inputs	4 of Max 60V DC ( Active > +10V, Inactive < +3V )								
DC current shunt Inputs	Two user definable: Suitable for 25A - 1000A DC current shunts at 25mV - 100mV								
Analogue inputs	2 general purpose logged 0-60V					-			
Control outputs	Relay (dry contacts): 4 of 60V DC, 500mA / Digital (isolated): 3 of 60V DC, 5mA								
Communication ports	USB Type B and RS232 (concurrent operation), CAN bus, RS485, DRM								
Supported protocols	Modbus RTU (via RS485)								
Dual, split & three-phase compatible	Yes with multiple SP PRO's								
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	IEC 62040-1:2019 / AS 62477-1:2012 (AMD1:2016), IEC 62109-1 and IEC 62109-2								
EMC	EN 61000.6.3:2007, 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)								
	Off-Grid only	Off-Grid or Grid connect				Off-Grid only	Off-Grid or Grid connect		
Certification	Certificate of Suitability, RCM								
Protection	IP43								
<b>WEIGHTS &amp; DIMENSIONS</b>									
Weight: Packed / unpacked with wall mount	37kg / 33kg	43kg / 39kg	37kg / 33kg	44kg / 40kg	47kg / 43kg	47kg / 43kg	160kg / 113kg	163kg / 115kg	
Dimensions: Packed / unpacked h x w x d (mm)	810x500x350 / 690x375x220						1080x740x650 / 870x540x290		

<sup>1</sup> Up to 240kW / 1000A per phase with installer built external contractor

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

<sup>2</sup> Above 30kW requires an installer built external AC contractor

<sup>3</sup> Suitable for On-Grid systems only