selectronic

SPPRO 2i



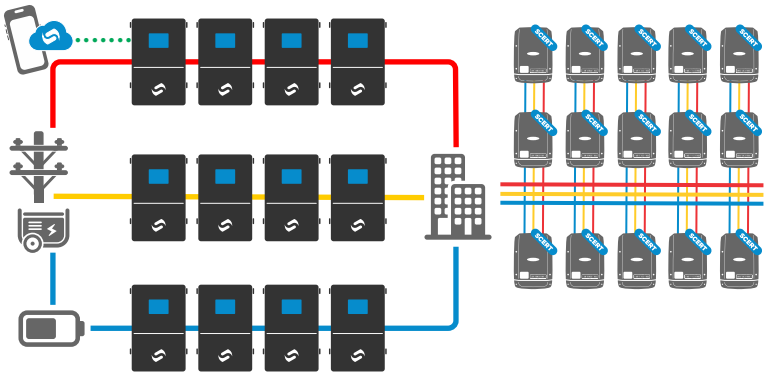
The SP PRO grid-forming battery inverter is one of the most versatile and intelligent on the market.
With custom Selectronic solutions, it enables properties to achieve true Off-Grid capability and complete site electrification.

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 retro-fit 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

SP PRO Variants	Managing Batteries of 24V, 48V & 120V
AC continuous load	3kW to 240kW (24/7)
Maximum Inverters (Per Phase)	4 x SP PRO's I Single - Dual - Split - 3-phase
Applications	Off-Grid & On-Grid* (Grid backup & Grid Feed), Boating and Caravaning
Battery Compatibility	Managed or self-managed Lithium, Lead acid or Lead Carbon
Coupling & Retrofits	AC Coupling or DC Coupling Compatible
Max Managed AC Coupled Solar	480kW
Generator Input	Yes & Inbuilt Integrated Generator Controller
Internal Transfer Contactor	63A or 125A Standard I Up to 1000A per phase external
Warranty	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
AC OUTPUTS								
Maximum AC Load power from batteries: 30 secs	7.5kW	10.5kW	8.4kW	12.0kW	18.0kW	18.0kW	33.0kW	38.0kW
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
Rated output power (Continuous 24/7)[4]	3.0kW	4.5kW	3.5kW	5.0kW	7.5kW	7.5kW	15.0kW	20.0kW
Rated apparent power	3,000VA	4,500VA	3,500VA	5,000VA	7,500VA	7,500VA	15,000VA	20,000VA
Continuous inverter AC current	12.5A	18.8A	14.6A	20.9A	31.3A	31.3A	62.5A	83.4A
Max total output to Load	15.0kW[1] + SP PRO continuous rating + solar inverter output						30.0kW[1] + 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[3] 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[2]/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
AC INPUTS								
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[1] / 15.0kW[1]						125A[1] / 30.0kW[1]	
Switching time between grid / generator & batteries	Less than 0.03 seconds							
Max continuous battery charging	3.0kW / 125A	4.5kW / 188A	3.5kW / 73A	5.0kW / 104A	7.5kW / 156A	7.5kW / 63A	15.0kW / 125A	20.0kW / 167A
DC INPUTS								
Nominal input / Operational voltage range (V DC)	24V / 20 - 34		48V / 40 - 68			120V / 100 - 162		
Maximum battery capacity	1.5MWh		3.0MWh			7.5MWh		
EFFICIENCY								
Peak Efficiency	95%	95%	95%	96%	96%	97%	97.2%	97.2%
DC consumption: idle	6W							
GENERAL								
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)							
FEATURES								
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 **www.selectronic.com.au** 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)							
STANDARDS								
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							
WEIGHTS & DIMENSIONS								
Weight: Packed / unpacked with wall mount	39kg / 35kg	43kg / 39kg	40kg / 36kg	44kg / 40kg	46kg / 42kg	46kg / 42kg	160kg / 113kg	163 / 115kg
Dimensions: Packed / unpacked h x w x d (mm)	810x500x350 / 690x375x220						1080x740x650 / 870x540x293	

[1] Up to 240kW / 1000A per phase with installer built external contactor
[2] Above 30kW requires an installer built external AC contactor
[3] Suitable for On-Grid systems only
[4] Power Factor = 1.0

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