

SP PRO Series 2i

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.



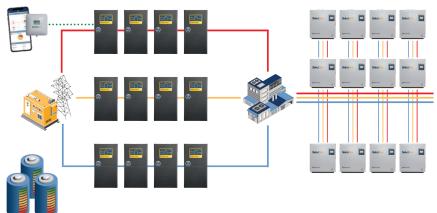
The same SP PRO is suitable for both Off-Grid and Solar Hybrid (grid-connect) installations for residential, commercial and industrial projects. Our inverters provide true transition from a hybrid to an off-grid system (and vice versa) with a simple on-site setting change.

Selectronic inverters have been made in Australia since 1981 and since then have powered 1000s 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 lowest total ownership costs. New firmware releases are generally backward compatable 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 these world-renowned inverters that offer grid independence, proven reliability, ultimate flexibility, retro-fit 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
- 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
- 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
- Demand Response Modes (DRM 0 8), AS4777 Power Quality Modes
- 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*

* Conditions apply see website for details













SP PRO Series 2i Specifications

AUSTRALIAN MADE AND OWNED						•			
SP PRO MODEL No.	SPMC240-AU	SPMC241-AU	SPMC480-AU	SPMC481-AU	SPMC482-AU	SPMC1201	SPLC1200	SPLC1202	
AC OUTPUTS									
Maximum Export Power		Continuous AC	output (2 x continu	ous AC output for S	SelectSun & Select	ronic Certified Ma	naged 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 + inv	erter rating ¹			30	(W ¹	
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	<3% @ 0-200% rated load 50 or 60 Hz +/-0.005% No Grid								
AC INPUTS				30 01 00 112 17	0.00370 110 0.10				
Nominal voltage				210 . / 1E% to	240 ./ 10% V AC				
-	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 ² / 15 kW 125 A ² / 30 kW								
Max AC input source, (Generator or Grid)	15 kW ¹ 30 kW ¹								
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	
DC INPUTS									
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								
EFFICIENCY									
Peak Efficiency	95%	95%	95%	96%	96%	97%	97.2 %	97.2%	
DC consumption: idle				6	5 W				
GENERAL									
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								
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)								
FEATURES									
Generator Backup	Inbuilt for	off-grid systems.	Optional for on-g	rid systems using	our Grid Fail Back	up module.	Inbuilt for off	-grid systems	
Battery temperature / Mid point battery voltage	Inbuilt for off-grid systems. Optional for on-grid systems using our Grid Fail Backup module. Inbuilt for off-grid systems Yes / Yes								
Battery Compatibility	Highly configurable battery charging set points allow integration with most battery chemistries including lithium. Please refer to www.selectronic.com.au for details on current compatible managed battery brands and models.								
Control langua									
Control Inputs	4 of, 12V to 60V True, < 3V False Two user definable: Suitable for 25 A - 1000 A current shunts at 25mV - 100mV								
Shunt Inputs									
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)								
STANDARDS									
Safety - Uninterruptible Power Supply (UPS)			IE	C 62040-1-1:2002	2 / AS 62040-1-1:2	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								
WEIGHTS & DIMENSIONS									
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)	"6" 22 "8			/ 690 x 375 x 220			1080 x 740 x 650		
Dimensions, i acked / Onpacked II X W X 0 (IIIIII)			010 Y 000 X 220	, 050 x 3/3 X 220			1000 X /40 X 050	, 570 X 540 X 290	

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