

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.



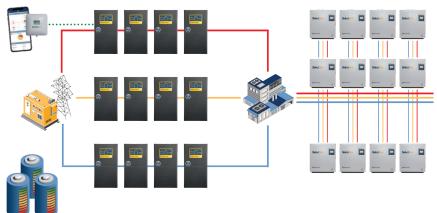
The same SP PRO is suitable for both Off-Grid and Solar Hybrid (grid-connect) installations for residential, commercial and industrial projects. Our inverters provide true transition from a hybrid to an off-grid system (and vice versa) with a simple on-site setting change.

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 worldrenowned inverters that offer grid independence, proven reliability, and now with MODBUS RTU 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, 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*

* Conditions apply see website for details

Manufacturing in Australia Since 1964











SP PRO Series 2i Specifications

Management AC Control	AUSTRALIAN MADĒ AND OWNED								
Manusch AC Land Proces from Notice of Stocks	SP PRO MODEL No.	SPMC240-AU	SPMC241-AU	SPMC480-AU	SPMC481-AU	SPMC482-AU	SPMC1201	SPLC1200	SPLC1202
Second	AC OUTPUTS								
Somewhat	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
Manual	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
Continue	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
Marched could be Load AC Searce - Frenche 10 Not - 1	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
Procure of Dirich Internate schape Float harmonic distation	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
Procure of Dirich Internate schape Float harmonic distation	Max total output to Load, AC source + inverter			15 kW + inv	erter rating 1			30	kW ¹
Security						V AC / <3% @	0-200% rated load	d	
Maniferance Capatr Prover to the Gold using managed PV So DNN So DNN 7.0 NN 10.0 NN									
Total Large of PV provincy (Management of Section 1997) Total Large of PV provincy (Management of Section 1997) Total Large of Section 1997 Total La		6.0 kW	9.0 kW	7.0 kW			15.0 kW	30.0 kW	40.0 kW
AC INPUTS									
Nominal votage	-	0.0 KW	3.0 KV	7.0 KV	10.0 KW	13.0 KW	13.0 KW	30.0 KW	10.0 KW
Normal lings (Requency S0 17 5 17 18 10 18 10 10 10 10 10					210 I/- 15% to	240 1/- 10% V AC			
AC grander current capacity Mas A. Riepestource. Generator or Gold 15 NV1 15									
Main AC Paper Searce Generator or Geldy Switching through Switching Switching through Switching Switch									
Switching Simile between girdigenatorial is batterials 20 MW / 125 M 2.5 kW / 125 M									
Max charging firm Grid or Generator 2,0 kW / 125 A 4,5 kW / 187 A 2,5 kW / 126 A 7,5 kW / 126 A 7,5 kW / 126 A 2,5 kW / 126 A									
Read Of Linguist Postage range (V DC) 24 V / 20 - 34 48 V / 40 - 88 120 V / 100 - 170									
Rate DC Lingut / DC voltage range IV DC) 24 V / 20 - 34 48 V / 40 - 68 120 V / 100 - 170 82 Bittyry ranger (props) 82 Bittyry ranger (props) 83 Bittyry ranger (props) 84 95 96 95 96 96 96 96 97 97 97 97 97 97 97 97 97 97 97 97 97	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
### Settlery capacity lranged ### SEPTICENTY ### SETTLER SETTLE SETTLER SETTL	DC INPUTS								
### Communication Ports	Rated DC input / DC voltage range (V DC)	24 V / 20 - 34 48 V / 40 - 68 120 V / 100 - 170							
Peak Efficiency 95% 95% 95% 96% 96% 97% 97% 97.2 % 97.2 % 95 W	Battery capacity (range)				up to 6	0, 000 Ah			
GENERAL Arbitent Temperature Operating Bange -10°C to 60°C Whereat disalpy indicators Renewable charging source Managed AC coupling with any SelectSun. Selectronic Certified single phase inventer. DC Renewable charge controller, generic AC coupled. Managed AC coupling with any SelectSun. Selectronic Certified single phase inventer. DC Renewable charge controller, generic AC coupled. Managed AC coupling with any SelectSun. Selectronic Certified single phase inventer. DC Renewable charge controller, generic AC coupled. Managed AC coupling with any SelectSun. Selectronic Certified single phase inventer. DC Renewable charge controller, generic AC coupled. Managed AC coupling with any SelectSun. Selectronic Certified single phase inventer. DC Renewable charge controller, generic AC coupled. Managed AC coupling with any SelectSun. Select. Development of the select standard selection of the	EFFICIENCY								
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Ambient Temperature Operating Range -10 °C to 60 °C Inverter display indicators Amaged AC coupling with any SelectSian, Selectronic Certified single phase inverter, DC Renewable charge controller, generic AC coupled Manigum No. of units per phase when islanded As Up to 2.5 years PLNK configuration and monitoring software internet Monitoring Select live (optional) FEATURES Selectronic Manigum No. of units per phase when islanded Designed phase when islanded internet Monitoring Select live (optional) FEATURES Selectronic Manigum No. of units per phase when islanded Designed phase when islanded internet Monitoring Select live (optional) FEATURES Selectronic Manigum No. of India Backup module. Inhult for off-grid systems. Optional for on-grid systems using our Grid Fall Backup module. Inhult for off-grid systems. Defonal for on-grid systems using our Grid Fall Backup module. Inhult for off-grid systems. Defonal for on-grid systems using our Grid Fall Backup module. Inhult for off-grid systems. Defonal for on-grid systems using our Grid Fall Backup module. Inhult for off-grid systems. Defonal for on-grid systems using our Grid Fall Backup module. Inhult for off-grid systems. Defonal for on-grid systems using our Grid Fall Backup module. Inhult for off-grid systems. Defonal for on-grid systems using our Grid Fall Backup module. Inhult for off-grid systems. Defonal for on-grid systems using our Grid Fall Backup module. Inhult for off-grid systems. Defonal for on-grid systems using our Grid Fall Backup module. Inhult for off-grid systems. Defonal for on-grid systems using our Grid Fall Backup module. Inhult for off-grid systems. Defonal for on-grid systems using our Grid Fall Backup module. Inhult for off-grid systems. Defonal for on-grid systems using our Grid Fall Backup module. Inhult for off-grid systems. Defonal Grid Grid Systems. Defonal Grid Grid Grid Systems. Defonal Grid Grid Grid Grid Grid Grid Grid Grid	DC consumption: idle				(5 W			
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Maximum No. of units per phase when islanded Data logging storage Up to 2.5 years SP LINK configuration and monitoring software Included as standard Included as standard between the included pasted and the standard including lithium. Including Includi	Inverter display indicators	charger status, charge source, usable battery capacity remaining, alarms, AC status.							
Data logging storage SP LINK configuration and monitoring software Internet Monitoring FEATURES Generator Backup Battery temperature / Mid point battery voltage Battery temperature / Mid point battery temperature / Ves / Yes Battery temperature / Mid point battery temperature / Ves / Yes / Yes Battery temperature / Mid point battery temperature / Ves / Yes	Renewable charging source	Managed AC coupling with any SelectSun, Selectronic Certified single phase inverter, DC Renewable charge controller, generic AC coupled							
Included as standard Internet Monitoring Select.live (optional) FEATURES Generator: Backup Inbuilt for off-grid systems. Optional for on-grid systems using our Grid Fail Backup module. Inbuilt for off-grid systems Battery townpartbrid point battery voltage Battery Compatibility Please refer to www.selectronic.com.au for details on current compatible managed battery branks and models. Control Inputs A of, 12V to 60V True, < 3V False Shurt Inputs Two user definabler: Suitable for 25 A - 1000 A current shurts at 25mV - 100mV Analogue Inputs 2 general purpose logged 0-60V 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 Dual, Spift & 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) STANDARDS Safety - Domersci limits) EMC (Domessic limits) EMC (Domessic limits) EMC (Gonoestic Initis) AS/NZS 4777.2:2020 Stand Alone (SPMC480-AU, SPMC482-AU, SPIC1200 and	Maximum No. of units per phase when islanded	4							
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### FATURES Control Rackup Inbuilt for off-grid systems. Optional for on-grid systems using our Grid Fail Backup module. Inbuilt for off-grid systems.	SP LINK configuration and monitoring software	Included as standard							
Inbuilt for off-grid systems. Optional for on-grid systems using our Grid Fail Backup module. Inbuilt for off-grid systems Sattery temperature / Mid point battery voltage	Internet Monitoring				Select.liv	ve (optional)			
Battery temperature / Mid point battery voltage Battery Compatibility Battery Compatibil	FEATURES								
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 Inputs	Generator Backup	Inbuilt for	r off-grid systems.	Optional for on-gr	rid systems using o	ur Grid Fail Backu	module.	Inbuilt for of	-grid systems
Please refer to www.selectronic.com.au for details on current compatible managed battery brands and models. Control Inputs A 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: 4 of 60 VDC, 50 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) STANDARDS Safety - Uninterruptible Power Supply (UPS) Safety - Power converters used in PV Systems ENC (Domestic limits) ENC (Domestic limits) ENC (Industrial limits) 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 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/	Battery temperature / Mid point battery voltage	Yes / Yes							
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Shunt Inputs Two user definable: Suitable for 25 A - 1000 A current shunts at 25mV - 100mV	Control Inputs								
Analogue Inputs 2 general purpose logged 0-60V 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) STANDARDS Safety - Uninterruptible Power Supply (UPS) Safety - Power converters used in PV Systems EIC 62040-1-1:2002 / AS 62040-1-1:2003 Safety - Power converters used in PV Systems EIC 62109-1 and IEC 62109-2 EMC (Industrial limits) EN 61000.6.3:2007 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 WEIGHTS 8 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									
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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 WEIGHTS 8 DIMENSIONS Weight Packed / Unpacked with wall mount 37 kg / 33 kg	STANDARDS								
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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 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	Safety - Power converters used in PV Systems								
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 WEIGHTS 8 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	EMC (Domestic limits)								
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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	Grid Connect	AS/NZS 4777	.2:2020 Stand Alo	ne (SPMC480-AU,	SPMC481-AU, SPI	MC482-AU, SPLC12	200 and SPLC1202	only), IEC 62116:2	014 (all models)
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	Certification				Certificate of	Suitability, RCM			
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 160 kg / 113 kg 163 kg / 115 kg	Protection				I	P43			
	WEIGHTS & DIMENSIONS								
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 29	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

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