

SP PRO AU Series



A smarter bi-directional inverter charger

Whether you live off grid; on grid and want to add storage; or on grid and want to move off grid, the SP PRO bi directional inverter charger can control and manage every aspect of your energy needs.

By incorporating solar, wind, hydro or a diesel generator with batteries, you can be sure you will never be without power.

Product Highlights

- Australian designed and manufactured
- Off Grid and Solar Hybrid (Grid Backup and Grid Feed), Marine and Mobile operation
- More features included as standard 'inside the box' than any other inverter charger
- AC or DC coupling compatible
- Retro fit existing system via AC Coupling
- Easily configurable for domestic and commercial applications
- Integrated generator controller to maximise system efficiency
- AC Continuous Load Power from 3kW to 60kW
- Single, Dual or Three phase
- 63A or 125A transfer contactor standard
- Comprehensive after-sales support
- Up to 8 year warranty*

* Conditions apply see website for details

SP PRO AU Series models

SPMC240-AU	SPMC241-AU	SPMC481-AU	SPMC482-AU	SPMC1201	SPLC1200	SPLC1202
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Independence | Peace of Mind | Reliability | Flexibility

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SP PRO AU Series Specifications



	SPMC240-AU	SPMC241-AU	SPMC481-AU	SPMC482-AU	SPMC1201	SPLC1200	SPLC1202	
AC OUTPUTS								
Maximum Export Power	Continuous output (2 x continuous output for Selectronic Certified Managed AC Coupled)							
Maximum AC Load Power from batteries:	30 seconds	7.5 kW	10.5 kW	12.0 kW	18.0 kW	18.0 kW	33.0 kW	38.0 kW
	1 minute	5.4 kW	7.6 kW	8.7 kW	13.0 kW	13.0 kW	26.0 kW	35.0 kW
	30 minutes	4.2 kW	6.75 kW	7.0 kW	11.25 kW	11.25 kW	23.0 kW	30.0 kW
	60 minutes	3.2 kW	4.7 kW	5.3 kW	8.0 kW	8.0 kW	18.0 kW	24.0 kW
	Continuous	3.0 kW	4.5 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 ²					30 kW ²		
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	50 or 60 Hz +/-0.005% No Grid							
AC INPUTS								
Nominal voltage	210 +/- 15% to 240 +/- 10% V AC							
Nominal input frequency	50/60Hz configurable +/- 1% to 10%							
AC transfer current capacity	63 A ³					125 A ³		
Max AC input source, (generator or grid)	15 kW ⁴					30 kW ⁴		
AC transfer time	typical < 1/2 cycle							
Max charging from Grid	3.0 kW	4.5 kW	5.0 kW	7.5 kW	7.5 kW	15.0 kW	20.0 kW	
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 10, 000 Ah							
EFFICIENCY								
Peak Efficiency	95%	95%	96%	96%	97%	97.2 %	97.2%	
DC consumption: idle	6 W							
GENERAL								
Disconnect time if grid (AC source) fails	< 30 ms							
DC Circuit Breakers internal	-					2 pole 250A		
Operating Temperature 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 Selectronic Certified single phase inverter, DC Renewable charge controller or Generic AC Coupled ¹							
Data logging storage	Up to 2.5 years							
SP LINK configuration and monitoring software	Included as standard							
Ambient temperature operating range	-10°C to 60°C							
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 temperature / Mid point battery voltage	Yes / Yes							
Battery Compatibility	Highly configurable battery charging set points allow integration with many battery chemistries including Lithium.							
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 off: 60 VDC, 5 mA							
Communication Port 1	USB (slave) or RS232 (adjustable baud rate of up to 115200)							
Communication Port 2	RS485 or RS232 (adjustable baud rate of up to 115200)							
Dual, Split & Three Phase compatible	Yes with an SP PRO AU on each phase							
Warranty	3 - 8 years (conditions apply see website for details)							
STANDARDS								
Safety - Uninterruptible Power Supply (UPS)	IEC 62040-1-1:2002 / AS 62040-1-1:2003							
Safety - Power converters used in PV Systems	EC 62109-1 and IEC 62109-2							
EMC (Domestic limits)	EN 61000.6.3:2007					-		
EMC (Industrial limits)	-					EN 61000.6.4:2007		
Grid Connect	AS4777.2:2005, AS4777.3:2005							
Certification	Certificate of Suitability, Ctick, Ergon/Energex Standard							
Protection	IP43							
WEIGHTS & DIMENSIONS								
Weight: Packed / Unpacked with wall mount	39 kg / 35 kg	45 kg / 39 kg	45 kg / 40 kg	54 kg / 42 kg	52 kg / 42 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		

¹ Where AC rating of Generic inverter does not exceed the Maximum AC Grid Feed Power of the SP PRO

² 60 kW with optional external contactor

³ 250 A with optional external contactor

⁴ 60 kW with optional external contactor

All specifications at 25°C and rated DC input voltage except where otherwise stated. Specifications may change without notice see website.