

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
- Retrofit existing systems
- Easily configurable for domestic and commercial applications
- Integrated generator controller to maximise system efficiency
- AC continuous load power from 3 kW to 60 kW
- Single, dual or three phase
- 63A or 125A transfer contactor standard
- Comprehensive after-sales support
- Up to 10 year warranty*

* Conditions apply see website for details

SP PRO AU Series models

| | | | | | | |
|------------|------------|------------|------------|----------|----------|----------|
| SPMC240-AU | SPMC241-AU | SPMC481-AU | SPMC482-AU | SPMC1201 | SPLC1200 | SPLC1202 |
|------------|------------|------------|------------|----------|----------|----------|

Grid Independence | Outstanding Reliability | Ultimate Flexibility

+61 3 9727 6600 | www.selectronic.com.au | facebook.com/SelectronicAustralia

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 / 15 kW | | | | | 125 A ³ / 30 kW | |
| Max AC input source, (Generator or Grid) | 15 kW ⁴ | | | | | 30 kW ⁴ | |
| AC transfer time | typical < 1/2 cycle | | | | | | |
| Max charging from Grid or Generator | 3.0 kW / 125 A | 4.5 kW / 187 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 |
| 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 of 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 - 10 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 | 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 | AS4777.2:2015 | | | | | | |
| Certification | Certificate of Suitability, Ctick | | | | | | |
| 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.