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

### AC OUTPUTS

<table>
<thead>
<tr>
<th>Model</th>
<th>Maximum Export Power</th>
<th>Continuous output (2 x continuous output for Selectronic Certified Managed AC Coupled)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPMC240-AU</td>
<td>7.5 kW</td>
<td>10.5 kW</td>
</tr>
<tr>
<td>SPMC241-AU</td>
<td>12.0 kW</td>
<td>18.0 kW</td>
</tr>
<tr>
<td>SPMC481-AU</td>
<td>18.0 kW</td>
<td>33.0 kW</td>
</tr>
<tr>
<td>SPMC482-AU</td>
<td>38.0 kW</td>
<td>-</td>
</tr>
<tr>
<td>SPMC1201</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>SPLC1200</td>
<td>30 kW</td>
<td>-</td>
</tr>
<tr>
<td>SPLC1202</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Maximum AC Load Power from batteries:**

- **30 seconds**: 7.5 kW, 10.5 kW, 12.0 kW, 18.0 kW, 33.0 kW, 38.0 kW
- **1 minute**: 5.4 kW, 7.6 kW, 8.7 kW, 13.0 kW, 11.25 kW, 23.0 kW, 30.0 kW
- **30 minutes**: 3.2 kW, 4.7 kW, 5.3 kW, 8.0 kW, 7.5 kW, 15.0 kW
- **60 minutes**: 3.0 kW, 4.5 kW, 5.0 kW, 7.5 kW, 7.5 kW, 15.0 kW
- **Continuous**: 3.0 kW, 4.5 kW, 5.0 kW, 7.5 kW, 7.5 kW, 15.0 kW

- **Max total output to Load, AC source + inverter**: 15 kW + inverter rating
- **Nominal voltage Off Grid**: 240 V AC configurable to 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, 30 kW
- **Switching time between grid/Generator and batteries**: less than 0.03 seconds
- **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

- **DC Circuit Breakers internal**: -
- **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
- **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.
- **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**: 2 general purpose logged 0-60V
- **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 - 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, Click
- **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

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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.