

Select.live²



Manual

Installation - Operation

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1. Introduction

1.1. Information

This document will explain the installation, operation and troubleshooting of Select.live 2 (Order Code 005469) intended for connection to SP PRO series 2i inverters.

This document doesn't provide any detailed information about the SP PRO. For detailed information on the SP PRO please read relevant manuals from the Selectronic Knowledge Base www.selectronic.com.au.

1.1.1 System Requirements

The Select.live 2 is compatible with SP LINK $\geq$ v16.0

- CSIP and monitoring: SP PRO Firmware $\geq$ v16.0, Comms Card Firmware $\geq$ 5.22, SP LINK $\geq$ v16.0
- Monitoring: SP PRO Firmware $\geq$ v12.25

1.1.2 Glossary of Terms

Terms	Description
Select.live 2	Remote monitoring device connected to SP PRO System. This is also referred to as "the device" in this document
Select.live 2 Portal	Remote monitoring web site for SP PRO system. This is also referred to as "the portal" or "the web app" in this document
Device Web Interface	Select.live local web interface for configuration
SP PRO System	Battery inverters from Selectronic Australia with battery, generator (optional) and solar PV (optional)
Off-Grid	SP PRO System with no grid connection; with battery, generator and solar PV (optional)
On-Grid	SP PRO System with battery, grid connection and solar PV (optional).
On-Grid with Generator backup	SP PRO System with battery, grid connection solar PV (optional) and generator (optional – requires additional Grid Fail, Generator backup kit).
Solar PV	A solar PV array with a solar inverter
W	Watt: The unit of power
kWh	Kilowatt-hour; the unit of energy
SoC	State of Charge (amount of charge in the battery) expressed as a % of the battery capacity
DRED	Demand Response Enabling Device

2. Safety

Indoor Use only 

Class II product 

Original OEM plugpack must be used - GPE018QB-1201504

This equipment is not suitable for use in locations where children are likely to be present.

Wall mounting required; less than 2m from floor height.

This equipment contains a non-user serviceable CR2032 lithium battery.

CAUTION:

Risk of explosion or the leakage of flammable liquid or gas if battery left in an extremely high temperature surrounding environment.

CAUTION:

Risk of explosion if disposing battery into a fire or hot oven, mechanically crushing or cutting battery.

Communication ports must terminate in equipment that is earthed on the same earth network as the mains used for the plugpack on this equipment.

Communications ports must not have signals exceeding 60V DC with respect to mains earth.

2.1. Select.live 2

Select.live 2 is a remote communication device for the SP PRO that enables users to view data remotely using an internet connected PC, laptop and mobile devices.

Select.live 2 communicates with the SP PRO inverter via its communication port and sends the data to the remote Australian server (Select.live 2 portal) via the internet. The Select.live 2 portal stores all this data ready to display to the user via web charts and animated flow tools.

Select.live 2 supports the SP PRO Series 2i in single-phase and Powerchain multi-phase configurations. Select.live 2 supports both On-Grid and Off-Grid systems, including On-Grid with Generator backup. Only one Select.live 2 device is required per SP PRO system.



3. Package Contents

Check the delivery for completeness and for any external damage. Contact your distributor if the delivery is incomplete or damaged.

3.1. Select.live 2 Package

This package contains Select.live 2 and accessories. (Order Code: 005469)



Select.live 2



Antenna



Plug Pack

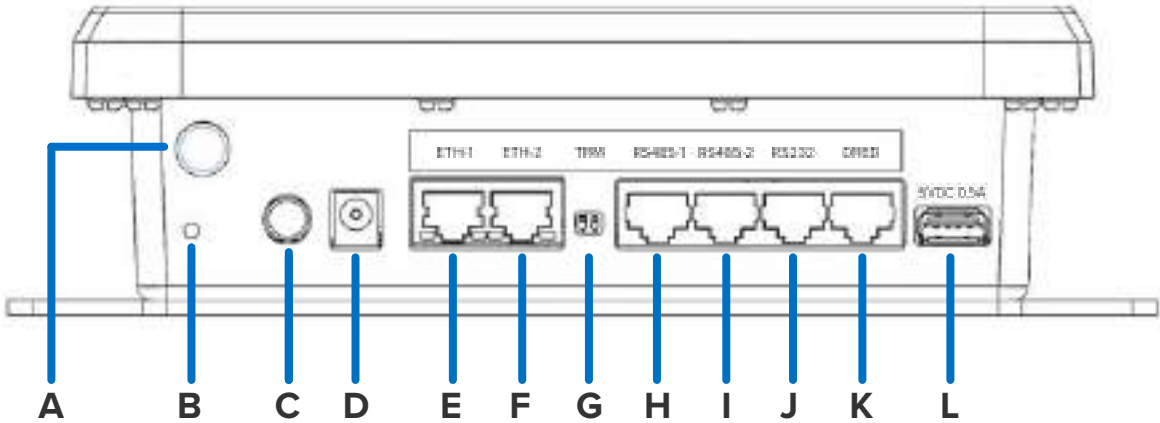


Comms Cable

4. Select.live 2 Overview

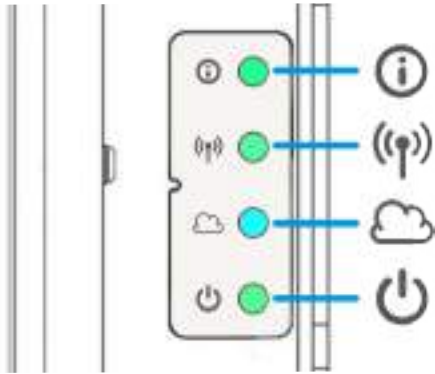
4.1. Select.live 2 Connection

The connection area is on the bottom of Select.live 2 facing downwards.



Position	Name	Description
A	Antenna	Wi-Fi Antenna connection point
B	Wi-Fi Reset	Momentary push button to reset Wi-Fi credentials
C	Power Button	Latching push button to power device, after powering off the unit will soft shutdown, this may take up to 10s
D	DC Power Port	2.5mm DC jack for power supply
E	Ethernet-1	Ethernet Port 1
F	Ethernet-2	Ethernet Port 2 - Service only
G	Terminating Switch	Termination resistors for RS485-1 and RS485-2 bus - Unused
H	RS485-1	RS485 Port 1
I	RS485-2	RS485 Port 2 - Service only
J	RS232	RS232 Port (Connection to SP PRO)
K	DRED	Output to DRM devices
L	USB A Port	USB A connection host - Service only

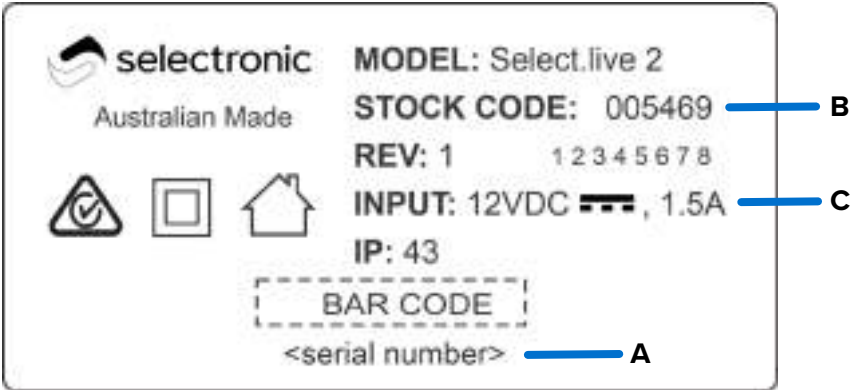
4.2. Select.live 2 LED Indicators



	Name	Colour	Status	LED Behaviours
	Information	Blue	Flashing	Retrieving SP PRO system configuration
		Green	Solid	SP PRO system configuration received
	Wi-Fi Status	Blue	Flashing	Initial Access point mode
		Green	Solid	Wi-Fi configured and connected
		Cyan	Solid	Wi-Fi configured and connected, Access point mode available
		Red	Solid	Wi-Fi is configured but not connected
		OFF		Wi-Fi is not configured and setup mode is not available
	Internet	Green	Solid	Internet available
		OFF		No internet
	Power	Green	Solid	Power ON
		OFF		Power OFF, soft shutdown may take up to 10s

4.3. Device Label

The device label is found on the left hand side of Select.live 2. The label has the following details.



Position	Label	Description
A	S/N	Serial Number / Asset ID
B	Stock Code	Stock code and hardware version
C	Rating	The power rating

5. Installation and Commissioning

Commissioning of Select.live 2

Mount Select.live 2 on the wall (see below)

- Power Select.live 2 with the supplied plug pack.
- Connect Select.live 2 to the SP PRO via the comms cable. (see [section 5.2](#))
- Configure the SP PRO system (see [section 5.3](#))
- Connect to Select.live 2 Wi-Fi and navigate to the setup page. (see [section 5.4](#))
- Configure Select.live 2 to connect to the internet via Wi-Fi or Ethernet. (see [section 5.4](#))
- Go to selectlive.selectronic.com.au

5.1. Mounting

Mount Select.live 2 on the wall in an upright position as per the following requirements:

- Select.live 2 must be wall mounted indoors at a height no greater than 2m above floor level.
- The ambient conditions at the mounting location must be 0°C to 60°C.
- Be mindful of maximum wiring lengths. (see table below)
- Protect Select.live 2 from dust, moisture and corrosive substances.

The method to mount Select.live 2 is as follows:

- Drill four holes in the wall as per the dimensions below and mount the unit on the wall using mounting screws and wall anchors. The gap on all sides of Select.live 2 must be at least 50mm. The gap between Select.live 2 and SP PRO must be at least 150mm.
- Select.live 2 is ready to connect to SP PRO and plug pack.



5.2. Connection to the SP PRO

- Connect Select.live 2 to the SP PRO Series 2i using the comms cable (supplied), as shown.

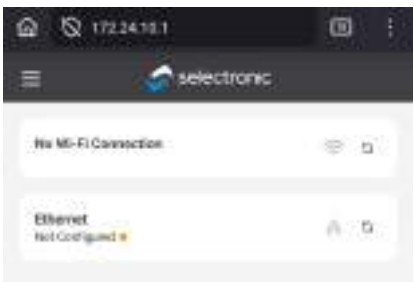


5.3. Configure the SP PRO

- Launch SP LINK using version v16.0 or higher - Go to: www.selectronic.com.au/splink/
- Configure the SP PRO site completely
- Configure the SP PRO to communicate with the Select.live 2 device
- Go to Configuration Settings > System >
 - Select** baud Rate = 57600
 - Set** DTR/DCD = Disabled
 - Set** Port 1 Comm card input = External (DB9)
- Configure the SP PRO with these updated settings.

Communication	
Port 1 Baud Rate	57600
Port 1 DTR/DCD*	Disabled
Port 1 Comm Card Input	External (DB9)

5.4. Setup Select.live 2

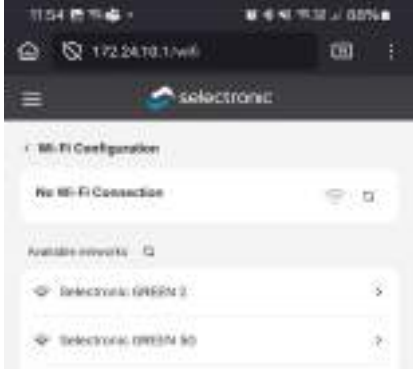
Steps	Action for Setup	
Step 1: View Select.Live 2 Access Point	Start by accessing the Select.Live 2 local access point <ol style="list-style-type: none"> 1. Power the device and press the power button, the  will turn green 2. Wait for  to turn Blue, 	
STEP 2: Connect to Select.Live 2 Access Point	<ol style="list-style-type: none"> 1. Open your device's Wi-Fi settings. 2. Search for available networks. 3. Connect to the network starting with SL2-4XXXXXXXXX or similar. 4. Enter the password: selectronic 5. Confirm the connection. 	
Step 3: Internet Connection	Once connected to Select.live 2 access point Go to webpage: http://172.24.10.1 <p>Two ways to connect.</p> <ol style="list-style-type: none"> 1. Ethernet: Plug a valid cat5/6 connection into the Select.live 2 Ethernet port. 2. For Wi-Fi see below. 	<p>Connection Status</p>  <p>When Ethernet is Connected</p> 

Step 4: Wi-Fi Setup

- 1. Click on the  to reveal the connection option.
- 2. Click on Wi-Fi and follow the prompts.



Choose your Wi-Fi and add your own password

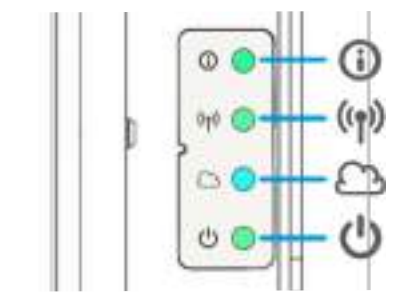


Check your Wi-Fi is connected



STEP 5: Internet connection complete.

If the Setup is successful, the  LED will be solid Green or Cyan.



STEP 6

You are now ready to connect to the Selectronic Portal:
Go to [section 7](#)

6. Select.live 2 Operation

6.1. Device overview

The Select.live 2 provides a platform for remote monitoring of SP PRO Series 2i inverters, as well as allowing interface to third-party devices through RS485/Ethernet and acting as a DRED for Demand Response management.

Interface	Maximum Length (m)
Ethernet	100
RS485	10
RS232	5
DRED	2

6.2. Power

The device contains a soft-shutdown feature for data integrity.

When the power button is pressed, the device will be operational after a short startup time.

LED indicators on the side of the unit show current status.

When the power button is pressed again as long as the device was previously operational, it will then shut-down and the power indicator will be off after the safe shutdown occurs.

The plug pack should only be removed following the safe shut-down procedure just described.

6.3. Wi-Fi

Select.live 2 features on-board Wi-Fi 2.4 GHz, 5.0GHz IEEE 802.11 b/g/n/ac using IPv4. Select.live 2 must be installed with the provided antenna. Third party antennas are not supported.

Note: IPv6 not supported.

6.4. Ethernet

Select.live 2 provides two separate 10/100 Ethernet interfaces. The device can use one of these interfaces to allow internet connection over a local area network to allow remote monitoring. The second ethernet port is for service usage. Select.live 2 does not support power over Ethernet (PoE).

6.5. RS485

Select.live 2 provides RS485 channels (Modbus) for future use with third-party devices.

RS485 port pinout is as shown below.

Pin	1	2	3	4	5	6	7	8
Label	GND	GND	DATA+	GND	GND	DATA-	GND	GND

RS485 termination switches are provided at the bottom panel of Select.live 2. Only required to be set for systems with RS485 comms cable longer than 10m.

6.6. RS232

The Select.live 2 RS232 interface should only be used with the Selectronic SP PRO Series 2i with the supplied communication cable.

Pin	1	2	3	4	5	6	7	8
Label	N/A	N/A	RTS	TXD	GND	CTS	RXD	GND

6.7. DRED

Select.live 2 provides a DRED port to support future demand response functionality in accordance with **AS 4755**.

6.8. USB

The USB port is for service usage only.

6.9. Select.live firmware upgrade

Firmware upgrade will be done automatically when connected to the internet.

7. Select.live 2 Portal Introduction

Welcome to the Selectronic Select.live 2 portal, your gateway to seamless energy management through the collaboration between Mondo and Selectronic. This powerful integration allows you to effortlessly monitor and manage your energy systems with just a power connection, comms cable and a Wi-Fi connection.

By accessing the Selectronic portal, you can view comprehensive site information, ensuring you have real-time data and insights to optimise your energy usage. This portal not only enhances your control over your energy systems but also ensures compliance with CSIP-Aus / Emergency Backstop requirements, providing a reliable and future-proof solution.

This introduction will guide you through the process of connecting to and using the Selectronic portal, enabling you to fully leverage the benefits of this innovative collaboration. Before starting this process make sure your Selectronic SP PRO site is configured completely.

7.1. Portal Setup

1. Open the Selectronic Select.live 2 portal:

Click on the link below or enter the URL into your browser:

selectlive.selectronic.com.au

2. Sign Up or Sign In:

If you don't have an account, click on **Sign up**.

If you already have an account, simply **Sign in**.



3. Create an Account:

Follow the prompts to create an account, including verifying your email address.

Once successful, you will need to read and accept the terms and conditions.



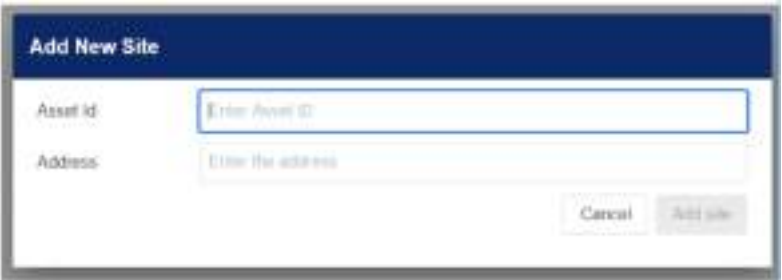
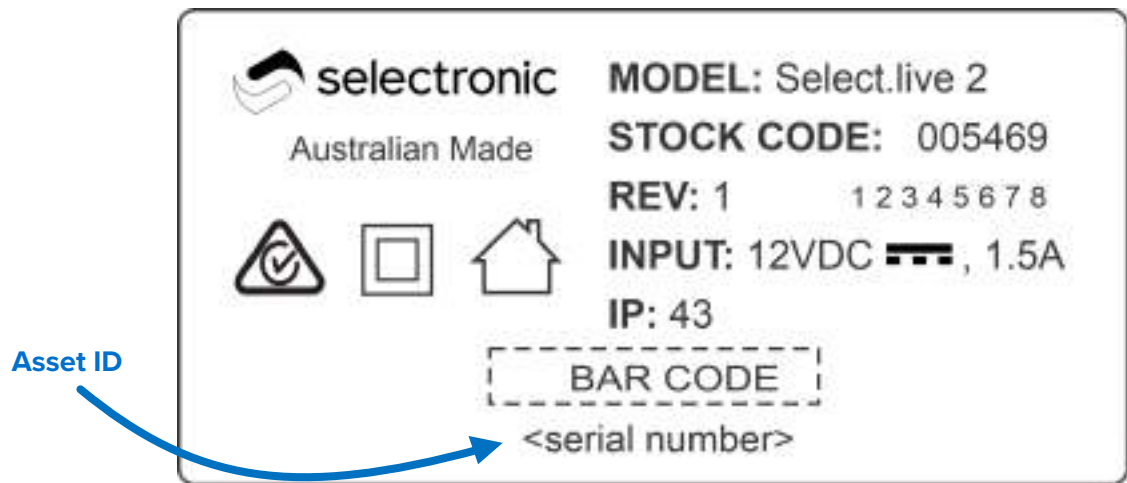
4. Add a New Site:

After accepting the terms, you will be prompted to add a new site. Click on '**Add site**'.



5. Enter Site Details:

In the dialog box that appears, enter the **Asset ID** and the address of the site you are adding. The **Asset ID** is the serial number, which can be found on the nameplate of your Select.live 2.



6. Confirm Site Addition:

Click '**Add Site**'. If successful, a confirmation message will appear. If unsuccessful, please review the details and try again.



8. Portal Description



The following describes the portal

- 1 Site Address:** Users can click the menu and select the address of the site they wish to view. This feature allows for easy navigation between multiple sites.
- 2 Live Usage – Energy Flow:** This section displays the real-time energy flow from various sources, including solar, battery, grid/generator import, grid export, and loads consuming energy. It provides a comprehensive overview of the current energy dynamics at the site.
- 3 Site Details:** This section shows the properties of the site, including the number of locations where the Select.live 2 is installed, and the total solar and battery capacity installed. It offers a detailed snapshot of the site's energy infrastructure.
- 4 System Details:** This section provides the system status, including network status (Wi-Fi, Ethernet, or Offline), alarm status (Normal, Warning/Fault, Shutdown), and the priority levels (1 through 8) of the SP PRO. It helps users monitor the overall health and performance of the system.
- 5 Battery Details:** This section displays battery charging modes (Initial, Bulk Absorption, Float, Equalise), battery temperature, DC voltage, and state of charge. It provides critical information about the battery's status and performance.
- 6 Generator Details:** This section provides information on the generator, including the start and run reason and status. It helps users keep track of the generator's usage and maintenance needs.
- 7 Achievements:** This section shows the amount of carbon saved by using the solar and battery system. It highlights the environmental benefits of the system and encourages sustainable energy practices.
- 8 Energy Snapshot:** This section displays the history of energy generation from solar, self-consumption, export to and from the grid, battery charge, discharge, and state of charge. It offers a detailed historical overview of the site's energy performance.
- 9 Menu:** This feature allows users to access different sections of the portal, including Home, Analysis, Device Monitor, and Settings. It provides easy navigation and access to various functionalities of the portal.

8.1. Analysis

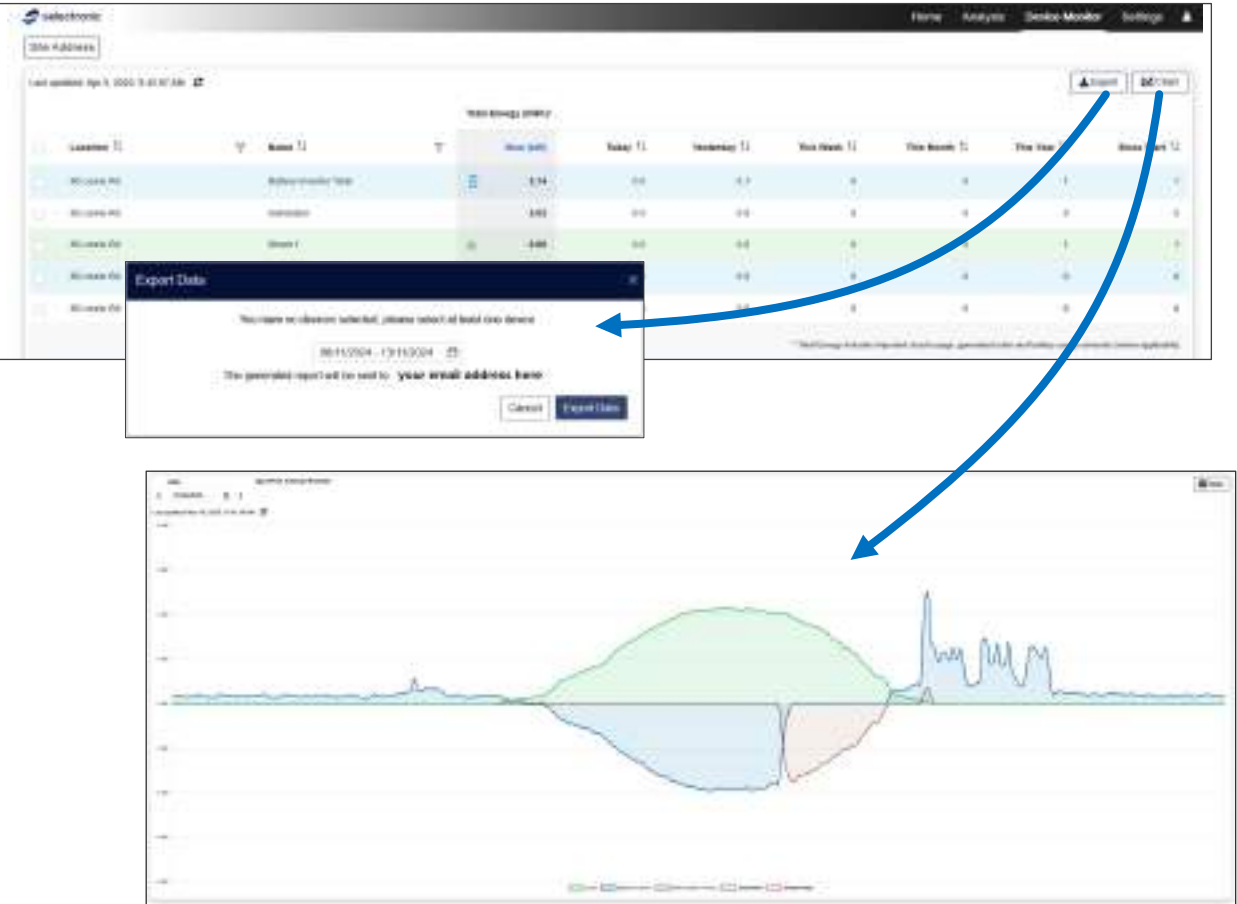
In the Analysis menu the User can choose and review Energy Usage and Energy Generation.



Energy Usage: Energy used by the system **Energy Generation:** Energy generated by the system

8.2. Device Monitor

The Device monitor allows the user to view the events



8.3. Settings

In Settings, the user can Add Alerts, manage users and amend site details. This ability depends on the access level of the user. See User Management section.

8.3.1 Alert

The user can choose what type of alerts they would like to receive via email or text. The available Alerts are Grid Import, Grid Export, Off-Grid, Diesel Generator and Battery Charge Level.

Location	Type	Trigger	Schedule	Notifications	Actions
Site address appears here	Grid Import	> 1KW		SMS, Email	
Site address appears here	Grid Export	> 1KW		SMS, Email	

Grid Import Alert:
If Import exceeds or falls below the user selectable threshold of power.

Grid Export Alert:
If Export exceeds or falls below the user selectable threshold of power.

Off-Grid Alert:
If the system enters Off-Grid mode.

Diesel Generator Alert:
If the diesel generator turns ON.

Battery Charge Level Alert:
If the Battery Charge drops below a specified level.

8.3.2 User Management

Depending on the User Management Access level, there are various levels of monitoring and alert controls.

- View only – View only access to the system
- Installer – Technician that monitors and services the system
- System Owner - Customer who owns the system



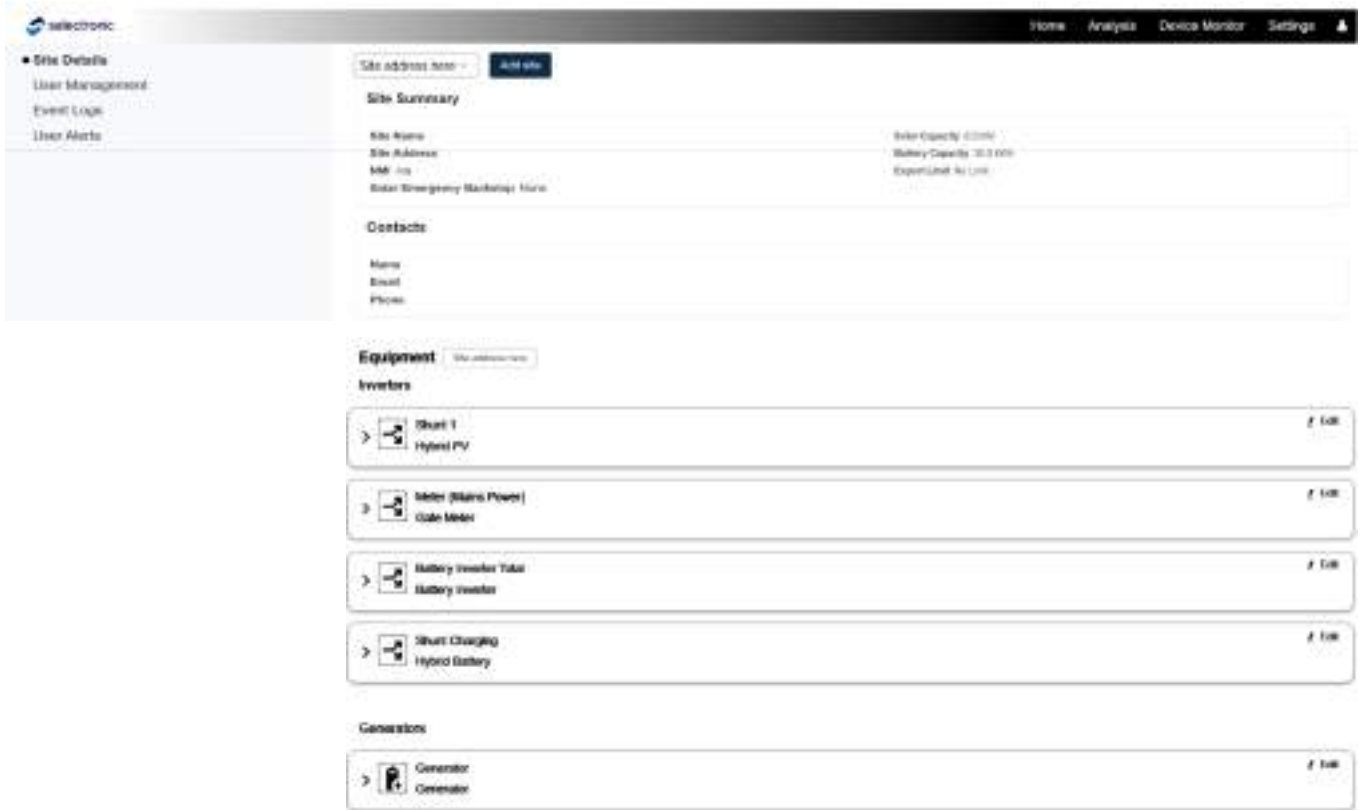
8.3.3 Transfer of Ownership

Use to transfer ownership from the Installer to System Owner after installation.



8.3.4 Site Details (Installer)

These are the details the installer must add during commissioning of the system.



8.4. Site Summary (Installer)

The Site details including the Site name, Address and NMI are added here.

Site Summary

Site Name

Site Address

NMI n/a

Battery Capacity 14.4 kWh

Export Limit No Limit

Edit



8.4.1 Scan for Devices

Click 'Scan for devices', if the SP PRO configuration has changed.

Note: If any custom arrangements have been made by Selectronic to your portal, please advise customer service as these changes may be lost. After Scan has been done, review, apply or discard changes. If not reviewed in 24hrs all changes will be reverted.



8.4.2 Site Contact

Add the Site Owner details

Batteries

Battery

Brand: GENERIC

Rating: 7.5 kWh

Model: Generic Battery

Capacity: 14.4 kWh

Edit Site Contact



8.4.3 Inverters

Add Inverter Details, if more than one inverter add all serial numbers if possible separated by commas.

Battery Inverter Total

Battery Inverter

Brand: Selectronic

Rating: 7.5 kW

Model: SPMC482

Edit Details for Rating Inverter Total



8.4.4 Mains Power

For Selectronic inverter leave as is.

Meter (Mains Power)

Core Meter

Brand: Selectronic

Model: SPMC482

Serial Number: 123456



8.4.5 Batteries

Add Battery Details, if more than one add all serial numbers if possible separated by commas.

Batteries

Battery

Brand: GENERIC

Rating: 7.5 kWh

Model: Generic Battery

Capacity: 14.4 kWh

Edit Details for Battery



9. Register for Solar Emergency Backstop Program

Make sure the Transfer of Ownership has been made to the actual owner (see [section 8.3.3.](#))



Site Summary

Site Name
Site Address
NMI: 0123456789
Solar Emergency Backstop: Registration

Battery Capacity: 11.3 kWh
Export Limit: No Limit

[Edit](#)

If the NMI number has been entered correctly, proceed to press Registration link.

But if the NMI number has not yet been entered, Click on Edit



Edit Site Summary

Site Name:
Address:
NMI:
Export Limit:

[Cancel](#) [Save](#)



TAX INVOICE

Need help?
Enquiries and complaints: Retailer Name: 131 131
Faults and emergencies: Distributor Name: 11 22 33
Disputes: Ombudsman: 1800 111 222

Your bill
Your amount due is
\$79.87
due on
27 April 2022

Could you save money on another plan?



Register for Solar Emergency Backstop Program

DNSP: [Select a DNSP](#)
NMI: 0123355588

☐ I confirm that the above details are correct
You can find your DNSP on your billing information.

[Cancel](#) [Submit](#)

After clicking on Registration link, the 'Register for Solar Emergency Backstop Program' box opens. Then select the appropriate DNSP. Tick box to confirm details are correct and then Submit.

Once the submission is complete you will see the following confirmation.



Site Summary

Site Name: SiteA
Site Address: n/a
NMI: 0123355588
Solar Emergency Backstop: Name of DNSP - Success

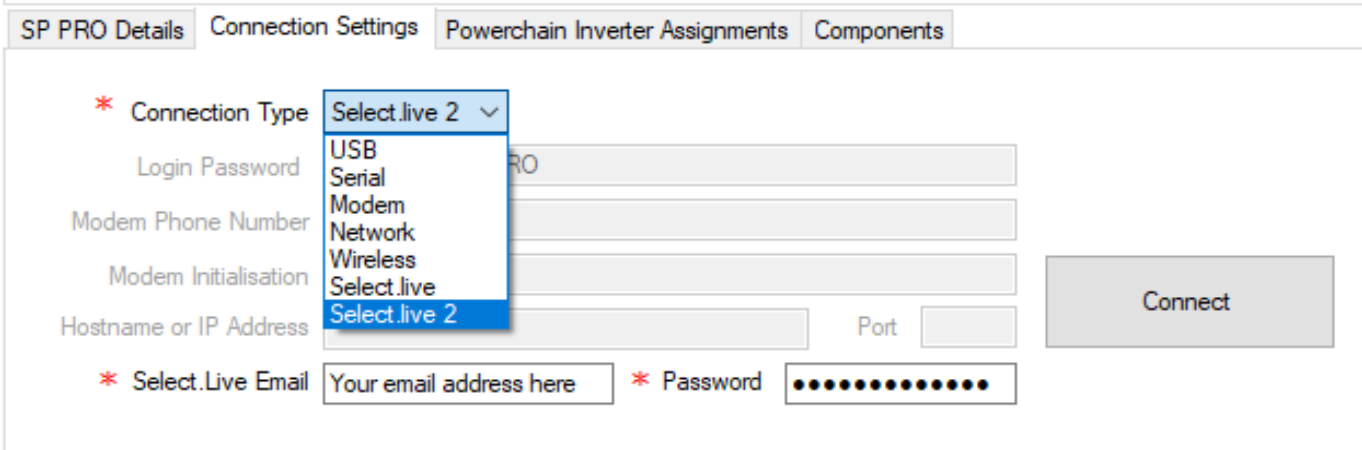
Solar Capacity: 8.5 kW
Battery Capacity: 20.0 kWh
Export Limit: 5.0 kW

[Edit](#)

10. SP LINK Connections

The portal allows for remote connections to SP LINK

1. Open SP LINK v16.0 (or later version)
2. Click on connection settings
3. Under connection type choose - **Select.live 2**
4. Enter the email address and password of the account you used to add your site
5. Click Connect



The screenshot shows the 'Connection Settings' tab of the SP LINK interface. At the top, there are four tabs: 'SP PRO Details', 'Connection Settings' (which is active), 'Powerchain Inverter Assignments', and 'Components'. Below the tabs, the 'Connection Type' dropdown menu is open, showing options: 'USB', 'Serial', 'Modem', 'Network', 'Wireless', 'Select.live', and 'Select.live 2' (which is highlighted in blue). To the right of the dropdown are input fields for 'Login Password', 'Modem Phone Number', 'Modem Initialisation', and 'Hostname or IP Address'. Below these is a 'Port' field. At the bottom, there are fields for '* Select.Live Email' (containing 'Your email address here') and '* Password' (represented by a series of dots). A large 'Connect' button is positioned to the right of the input fields.

11. Maintenance and Service

Select.live 2 has an IP rating of IP43 and is not waterproof. Regular maintenance is required.

- Regularly conduct visual inspections of Select.live 2 for external damage, dirt, moisture and insects.
- Protect Select.live 2 from wet conditions. Ingress of liquids may damage the unit.
- Clean Select.live 2 with a slightly dampened cloth to prevent the penetration of moisture.
- For dirt use a mild, non-abrasive, non-corrosive cleaning agent.

12. Specifications

12.1. Select.live 2

General	
Dimensions	W237mm x H241mm x D63mm (inclusive of antenna)
Weight	650g
Housing Material	UV-resistant ASA UL94HB
Bracket Material	Power Coated Aluminium
IP Rating	IP43
Operating Temperature	0°C to 60°C
Operating Humidity	5% to 95% (non-condensing)
Power Method	DC Plug Pack
Rating	12V input, 1.5A max
Standards Compliance	AS/NZS 62368.1:2022, AS/NZS CISPR 32:2020
Regulatory Compliance	CSIP-Aus / Emergency Backstop
Demand Response Enabled Device (DRED)	1 x AS/NZS 4755 compatible DRED Interface
Communications	
Wireless	2.4GHz, 5.0GHz IEEE 802.11 b/g/n/ac wireless
Ethernet	10/100Mbps IEEE802.3
Serial	1 x RS232 max 115200bps - 1 x RS485 max 9600bps
Universal Serial Bus	Service use only
Security	Role based user access - Data encrypted at rest and in transit Periodic Penetration Testing Secured password vault for storing access credentials

13. Contact

If you have any technical issues regarding Select.live 2, contact
Selectronic Support at www.selectronic.com.au/support/

Please include the following information in order to receive faster assistance:

- The Serial number, on the nameplate of the Select.live 2
- The Serial number of the SP PRO
- The Method of the network connection (Wi-Fi or Ethernet)
- The type, brand and model of the Wi-Fi or Ethernet router

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