

SPB
Sealed Performance Batteries
SNLXMT
SOC
Invicta
Touch
Interface



SBP SNLXMTSOC Invicta Touch Interface Instruction Manual

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SBP SNLXMTSOC Invicta Touch Interface



Overview

- Invicta Interface is a specialized indicating instrument designed for use with Invicta Xero batteries.
- Based on RS485 communication, it provides detailed information on battery status, including voltage, current, remaining capacity, temperature, and configuration settings.
- Unlike traditional setups that require a connection to the diverter, Invicta Interface can be directly linked to the battery using a simple wiring harness.

This streamlined connection method not only reduces the cost of the wiring harness but also significantly speeds up the installation process.

Attention

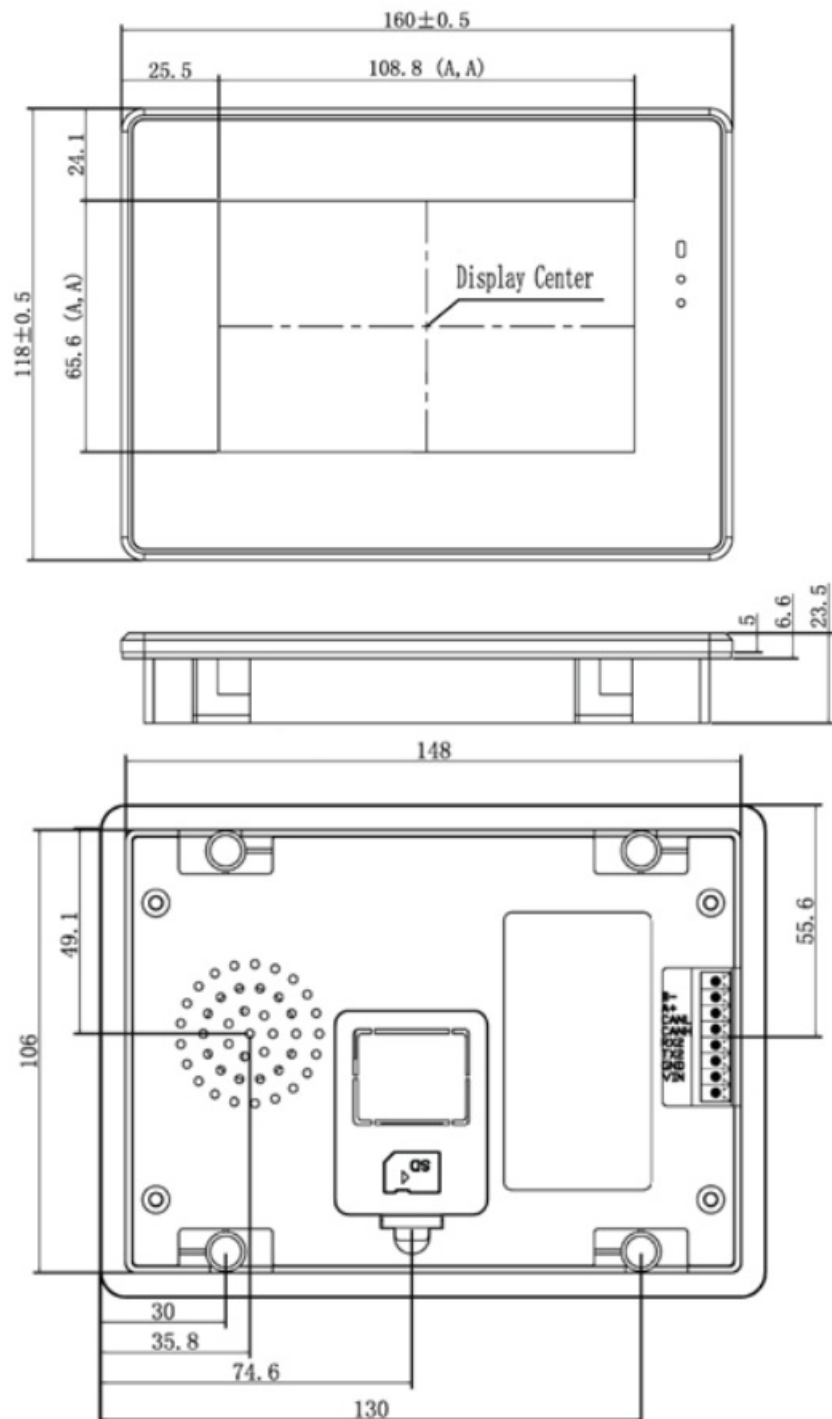
- Before using this product, please read this manual thoroughly.
- Retain this manual for future reference.
- Ensure correct usage by carefully following the instructions provided in this manual. The company is not liable for any direct, indirect, or consequential damages resulting from improper use or misuse of this product or related items.
- Information in this manual is subject to change without prior notice.
- Avoid using input voltages or currents that exceed the specified limits to prevent product damage or fire.
- Professional technicians should handle installation and wiring. If you encounter any issues, please contact the company's technical support promptly.

Specifications

- **Rated Input Voltage** 9-60V
- **Rated Power** <5W
- **Operating Current Maximum** 170mA (VCC=12V)
- **Operating Current Minimum** 55mA (VCC=12V)
- **Resolution** 800×480
- **Operating Humidity** 10%-90%RH

- **Protective Level** IP65 (Front)
- **Communication** RS485
- **Operating Temperature** -20~70oC
- **Storage Temperature** -30~80oC
- **Net Weight** 340g
- **Type** LCD
- **Screen Size** 5 Inch
- **External Dimension** 118Lx160Wx6.6D
- **Internal Dimensions** 106Lx148Wx16.9D
- **Compatible Batteries** SNLX (Invicta Xero)

Dimension



Features

- Wired touchscreen interface for Invicta Xero batteries (SNLX)
- CAN/RS485/RS232 communication
- IP65 water and dust-resistant front with rubber gasket separator
- Directly connectable to Invicta Xero batteries or via the Invicta I-Hub.
- Features a 5.0-inch IPS LCD screen with 800×480 pixel resolution and 262K true-color display.
- Equipped with a high-reliability capacitive touch panel.
- Includes a built-in speaker, LED lamp, and photosensitive sensor.
- Housed in a protective shell with anti-UV properties and conformal coating.
- Emits an audible alarm when specified alarm, protection, or low SOC conditions are detected.

Battery Setup

1. Step 1: Initial Setup

- **Connect Power Cable:** Ensure the Invicta Interface power cable is correctly connected to the Invicta Xero, observing polarity.
- **Connect Communication Cable:** Connect the communication cable to the LINK IN port of the Invicta Xero or the Invicta Interface port of the INVICTA I-HUB (if applicable).
- Verify that the INVICTA I-HUB power and communication cables are properly connected to the Invicta Xero.

2. Step 2: Networking Multiple Batteries

- **Connect Communication Lines:** Connect the LINK OUT of the first battery to the LINK IN of the second, and so on for additional batteries.
- **Connected State:** Turn on all batteries then press and hold the RESET button on the first Invicta Xero display for over 3 seconds. All SOC indicator lights should flash simultaneously. If not, try again.
- **Communication State:** Press and hold the RESET button on the first battery for over 20 seconds. All SOC indicator lights will race alternately. This process may take 2-3 minutes.
- Once complete, the lights will stop flashing and display the battery SOC. If unsuccessful, try again.
- **Configure Bluetooth App:** Use the Invicta Legion Bluetooth app to set the system name, voltage platform, and number of series and parallel connections. Select the first battery as the main battery.

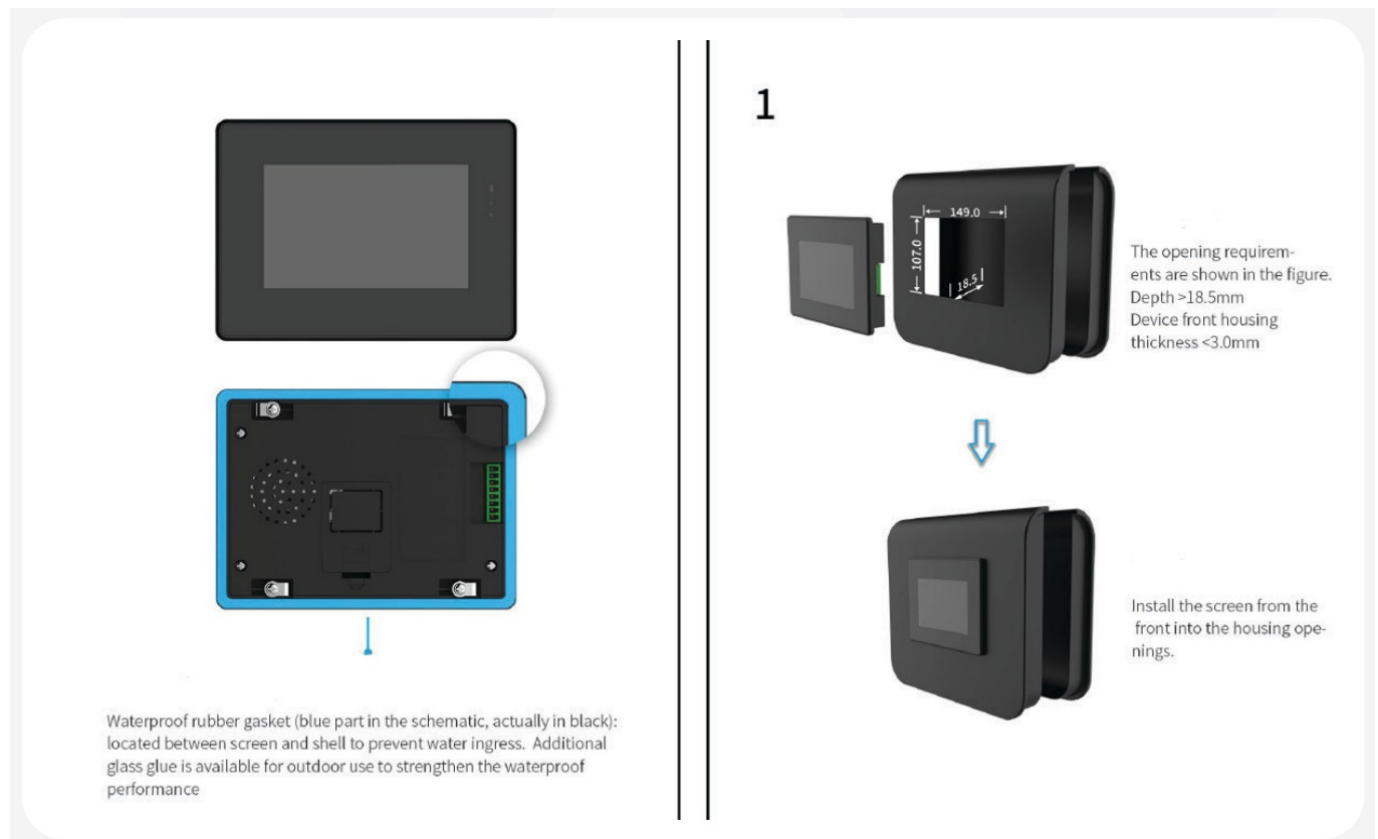
3. Step 3: Single Battery Setup

- **Connected State:** Follow the same procedure as in Step 2 to enter the connected state.
- **Communication State:** Follow the same procedure as in Step 2 to enter the communication network state.

Download The Invicta Legion APP For Free

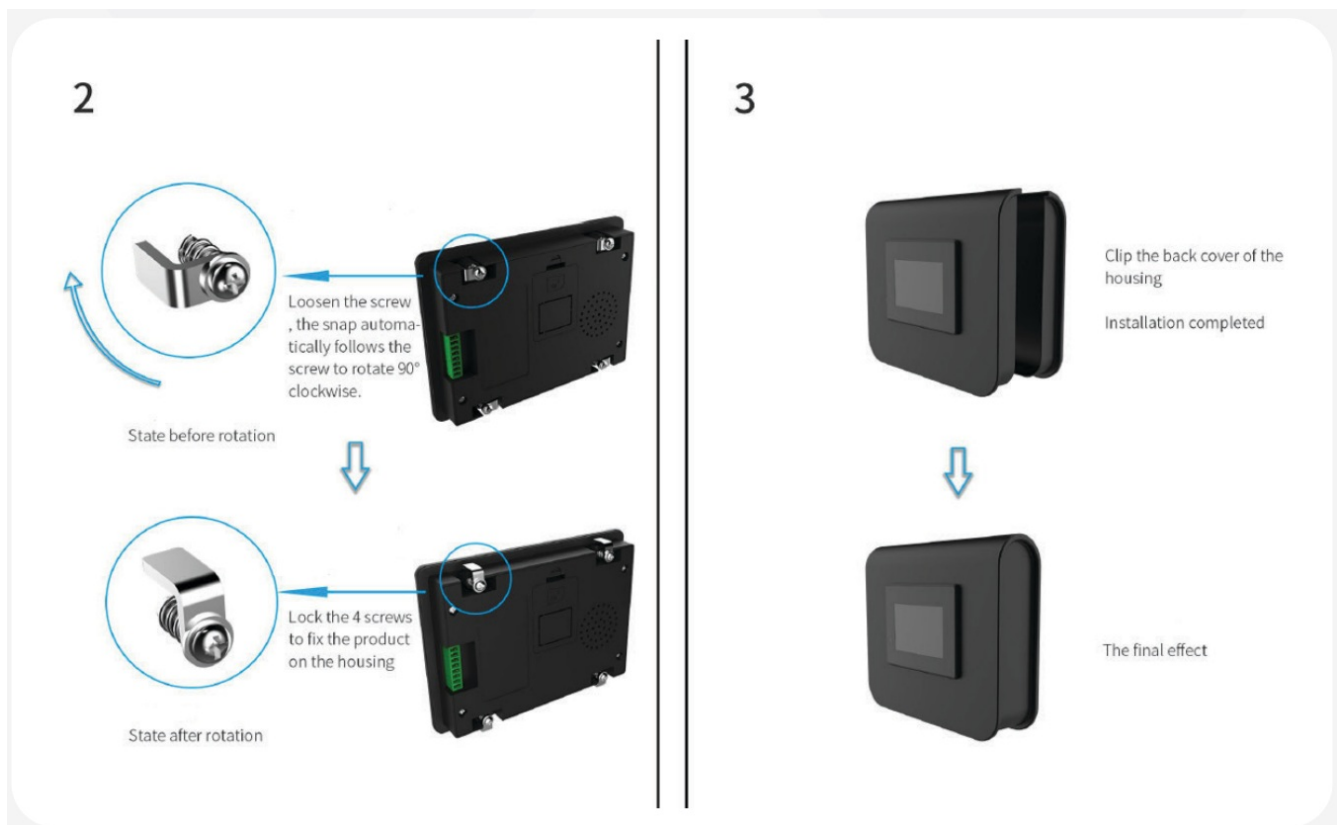


Installation



Housing Requirements

- The rubber gasket will be black. Ensure nothing is obstructing the seal as this is a protection for the internals of the device.
- Minimum opening requirement (mm) 107H x 149W x 18.5D
- The maximum requirement should not exceed the external dimensions of the unit
- Install the unit from the front of the housing opening



Screw Adjustment

- Loosen the screw 90° in an anti-clockwise direction, the clip will be in a horizontal position
- Rotate clip 90° in a clockwise direction until in a vertical position
- Lock the 4 screws to fix the product on the housing

Screen Display

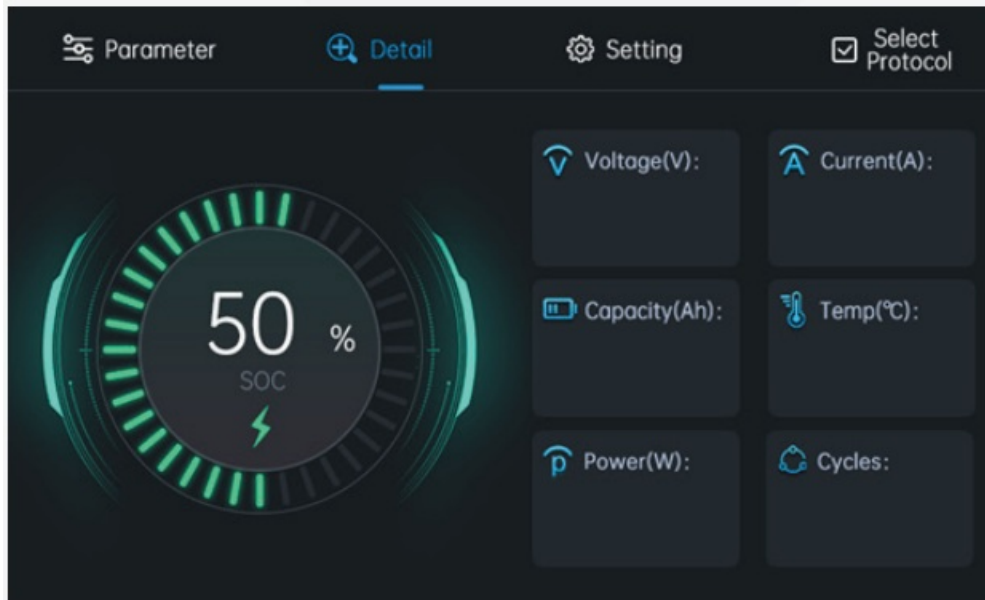
Parameter Page



- **SOC:** The state of charge, is displayed as a percentage. When the SOC is not greater than 10%, the interface will change from green to yellow.
- **Voltage (V):** The overall voltage of the battery system.

- **Current (A):** The current being passed through the battery system.
- **Remaining Capacity (Ah):** The overall remaining capacity of the battery system.
- **Max Temp:** The maximum temperature of the battery system.
- **Min Temp:** The minimum temperature of the battery system.
- It is possible to select temperature units, including Celsius and Fahrenheit in the setting interface.
- **Configuration:** The number of series and parallel connections in battery systems.

Detail Page



- **Voltage (V):** The voltage of the chosen pack.
- **Current (A):** The current being passed through the chosen pack.
- **Capacity (Ah):** The remaining capacity of the chosen pack.
- **Temp:** The temperature of the chosen pack. It is possible to select temperature units, including Celsius and Fahrenheit.
- **Power (W):** The power is transferred through the chosen pack.
- **Cycles:** The number of cycles.

Setting Page

The screenshot shows the 'Setting' page of the same battery management system interface. The top navigation bar is identical to the 'Detail' page, with 'Setting' now selected and highlighted. The main content area contains three settings sections. The first is 'Time Setting:', followed by input fields for 'Year', 'Month', 'Day', 'Hour', 'Minute', and 'Second'. A 'Confirm' button is located to the right of the 'Second' field. The second section is 'Language Selection:' followed by a single input field. The third section is 'Temperature Unit:' followed by a single input field.

- **Time Setting:** Invicta Touch Interface has RTC, including year, month, day, hour, minute, and second. It is possible to modify the time through the setting interface. It must click confirm after completing the time setting.
- **Language Selection:** Invicta Interface can select languages, including English and Chinese.
- **Temperature Unit:** Invicta Interface can select temperature units, including Celsius and Fahrenheit.

Warning Protection Alarms

Warning Alarms


Cell under voltage warning	Cell over voltage warning	Battery under voltage warning
Battery over voltage warning	Charge over current warning	Discharge over current warning
Low ambient temperature warning	High ambient temperature warning	Mos low-temperature warning
Most high-temperature warning	Cell charge low temperature warning	Cell charge high-temperature warning
Cell discharge low temperature warning	Cell discharge high-temperature warning	Low capacity warning
Low insulating resistance warning	Cell disconnected warning	Cell failure warning
Cell heating abnormal warning	Cell/system over voltage warning	Cell/system under voltage warning
Discharge high-temperature warning	Discharge low-temperature warning	Charge high-temperature warning
Charge low temperature warning	Discharge over current warning	Charge over current warning
Internal-net communication failure warning	Cells unbalance warning	

Protection Alarms


Cell under voltage protection	Cell over-voltage protection	Battery under voltage protection
Battery over-voltage protection	Secondary charge over current protection	Secondary discharge over current protection
Short circuit protection	Cell failure protection	Charge over current protection
Discharge over current protection	Low ambient temperature protection	High ambient temperature protection
Mos low temperature protection	Most high-temperature protection	Cell charge low temperature protection
Cell charge high-temperature protection	Cell discharge low temperature protection	Cell discharge high-temperature protection
Low capacity protection	Low-insulating resistance protection	Cell disconnected protection
Mos failure protection	AFE failure protection	Cells voltage difference protection
Cell/system over-voltage protection	Cell/system under voltage protection	Discharge high-temperature protection
Discharge low temperature protection	Charge high-temperature protection	Charge low temperature protection
Discharge over current protection	Charge over current protection	Mos failure protection
System failure protection	Cells unbalance protection	

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Documents / Resources

	<p>SBP SNLXMTSOC Invicta Touch Interface [pdf] Instruction Manual SNLXMTSOC Invicta Touch Interface, SNLXMTSOC, Invicta Touch Interface, Touch Interface, Interface</p>
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References

-  **[Batteries For All Applications | Sealed Performance Batteries](#)**
- **[User Manual](#)**

