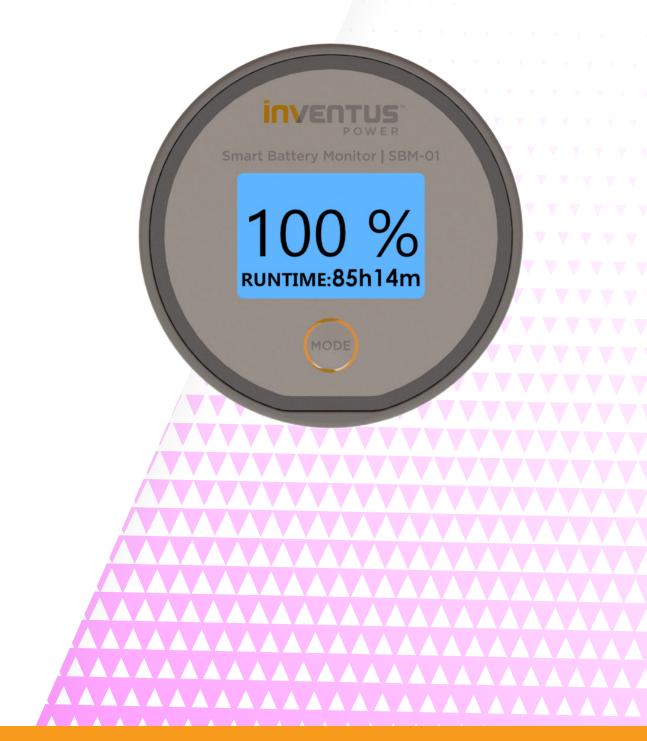
Smart Battery Monitor Quick Start Guide



SBM-01



Designed & Manufactured by



Inventus Power, Inc. 1200 Internationale Parkway Woodridge, IL 60517 inventuspower.com info@inventuspower.com +1 877.423.4242

PROformance Add-On Device Quick Start Guide



Applicable Models

Model	Part Number
U1LiFePRO™ Smart Battery Monitor Kit	903-09472-001
PROTRXion™ 48V60-TRX-HD Smart Battery Monitor Kit	903-09472-002
PROTRXion™ Smart Battery Monitor Kit	903-09472-003
PROTRXion™ 12V100 24V60 Smart Battery Monitor Kit	903-09472-004
PROTRXion™ 48V60 (Old Pinout) Smart Battery Monitor Kit	903-09472-005

Release Date	Revision	Scope of Change
2023-08-04	V1.7	Minor edits to V1 release

Document Information

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Technical Support

If you have any technical questions regarding the PROformance Add-On Device, please contact our technical support team at:

Phone: +1.877.423.4242

E-mail: tech_support@inventuspower.com

Safety and Tools





Before working with any electrical products or where electricity is present, the following guidelines are required:

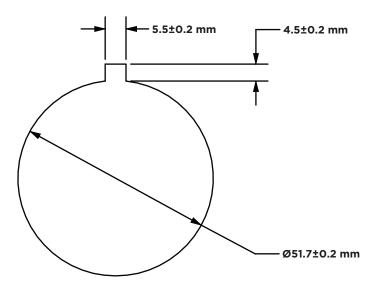
- Turn off system power, disconnect battery, and place battery in ship mode
- Proper PPE (Personal Protective Equipment)
 - Rubber gloves
 - Safety glasses
- Insulated tools
- Removal of any jewelry



Tools Needed

- Drill and 51mm hole cutter
- Hand saw
- Insulated torque wrench
- Insulated Philips Screwdriver (optional)
- Sandpaper

Mounting Hole

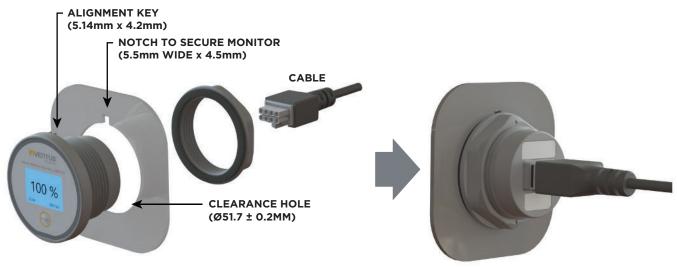


Note: A hole will need to be cut if the existing panel does not include a 51.7mm diameter hole. See next page for instructions.

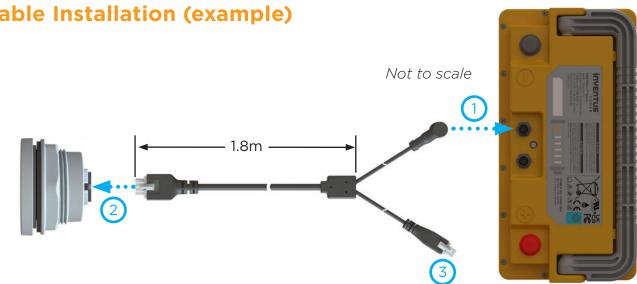
- 1. Using a drill with a 51mm hole cutter, cut hole (Note: if the SBM-01 cannot be inserted through the clearance hole easily, the hole can be increased using the sandpaper)
- 2. Locate top of hole, mark desired location to cut alignment notch
- 3. Using a handsaw, cut a 5.5mm x 4.5mm notch as shown in above figure

Mounting Hole





- 1. Insert Smart Monitor threaded body through clearance hole (51.7±0.2mm) using alignment key with notch (reference note above for creating clearance hole)
- 2. Secure monitor with Nut and tighten to 3 Nm torque
- 3. Attach 8-pin Cable to Rear of Smart Monitor (reference User Manual for specific battery model and wire harness part number)



Cable Installation (example)

- 1. Connect battery M12 signal port to cable harness (communication cable may vary per battery model, see SBM-01 User Manual for more information).
- 2. Connect Smart Battery Monitor to 8-pin connector.
- 3. Leave 4-pin connector disconnected if battery axillary power can provide >1A continuous current. If the battery cannot, battery terminals must be connected to power the Smart Battery Monitor (see SBM-01 User Manual for more information on matching the correct cable harness with battery model).

Operating SBM-01

- 1. Display
- 2. MODE Button
 - Activates display while in shutdown or sleep mode
 - Shuts down monitor when pressed for 3 secs
 - Toggle between Home Screen and Status Screens

Once the monitor is installed, powered up, and establishes communication with the battery, the Startup Screen will be displayed for 3 seconds, followed by the Home Screen. To shutdown the monitor, hold the MODE button for 3 seconds.

The monitor will go to sleep after 5 minutes of battery inactivity. To activate the display, tap the MODE button.



Get To Know Your Smart Monitor Display Settings

Home Screen	Status Screen 1	Status Screen 2
12/2) 96% RUNTINE: 10h 14m	ERRORNONEBATT TEMP70'FLIFE AH USED250CURRENT16.9AVOLTAGE27.6V	SW VER A11.A01.B16
Toggle to Home Screen by pressing MODE button.	Toggle to Status Screen 1 by pressing MODE button.	Toggle to Status Screen 2 by waiting for 5 seconds from Status Screen 1.
 Battery charging icon (only appears in charge mode) State of Charge (%) Battery Runtime Remaining Battery Fault Alert (only appears when there is a fault) 	 ERROR: Battery Fault Code BATT TEMP: Battery Temperature (°C or °F) LIFE AH USED: Cumulative lifetime discharge capacity (Ah) CURRENT: Charge/Discharge Current (A) VOLTAGE: Voltage (V) 	 SW VERSION: Software version of the battery pack and Smart Battery Monior [BQ, ATSAM, SBM-01]

Need More Help?

Contact Tech_Support@inventuspower.com +1.877.423.4242