

# Smart Battery Monitor

SBM-01 | Technical Data Sheet

**inVENTUS**  
POWER



**Tool-less installation**  
with simple plug-n-play assembly



**Intelligent monitoring** for  
multiple strings of battery packs



**Rugged design** for indoor /  
outdoor use



Designed to meet **UL, IEC,**  
**CE & RoHS**



**IP67 protection**  
against water & dust  
(front panel)



- **Data reporting** of state of charge (SOC), state of health (SOH), battery voltage, run time remaining, and lifetime Ah consumed
- **Auto baud rate detection** (125kbps to 1Mbps)
- **Limp home mode** notification
- **Intelligent diagnostics** to report battery faults
- **Drop-in-replacement** for existing 52mm battery monitor
- Integrated **CAN termination resistor**

## Electrical Specifications

Supply Voltage Range 9 to 60VDC

Typical Power Consumption 1.4W

Max Power Consumption 1.8W

Communication Specifications  
*Protocol*  
J1939, CANopen, NMEA 2000

*Baud rates*  
125Kbps to 1Mbps

*Automatic baud rate detection*

*CAN termination resistance*  
120 ohm included

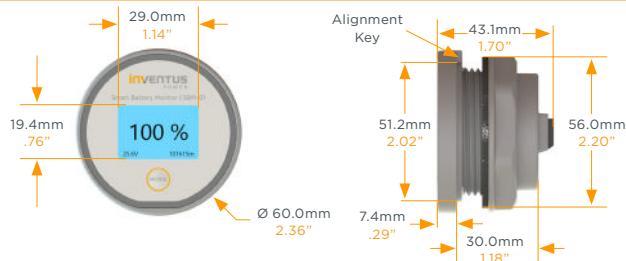
## Operational Specifications

Operating Temp -30°C to 70°C

Storage Temp -40°C to 80°C

Humidity (Operating) 5% to 85%

## Mechanical Specifications



Installation Flush mount

Ingress Protection IP67\*

Torque (Nm) 3 (hand tighten)

Weight 70g (0.15lbs)

## Certifications

- UL 583
- EN50498
- FCC Class B
- CE
- WEEE
- RoHS
- IEC 61000-4-2
- IEC 61000-4-4
- ICES-003

## Accessory

2m shielded battery pack to Smart Monitor communication cable (Cable P/N varies depending on battery model, see pages 2-3)



**Request**  
more information

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	PROTRXion™ 48V60-TRX-HD Smart Battery Monitor Kit Part Number: 903-09472-002	PROTRXion™ Smart Battery Monitor Kit Part Number: 903-09472-003
<b>Picture (not to scale)</b>		
<b>Compatible Battery Models</b>	S/M-48V60-TRX-HD 	S/M-24V80-TRX S/M-24V90-TRX S/M-36V80-TRX S/M-48V60-TRX† 
<b>Cable Length</b>	3.6 meters	2.0 meters

†Compatible with newer models of S/M-48V60-TRX (MFG Date after March 1, 2023) where pin 8 is auxiliary power

	PROTRXion™ 12V100 24V60 Smart Battery Monitor Kit Part Number: 903-09472-004	U1LiFePRO™ Smart Battery Monitor Kit Part Number: 903-09472-001
<b>Picture (not to scale)</b>		
<b>Compatible Battery Models</b>	S-12V100-TRX-HD S/M-24V60-TRX 	S/M-12V40-U1 S/M-24V20-U1 
<b>Cable Length</b>	2.0 meters	2.0 meters

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