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
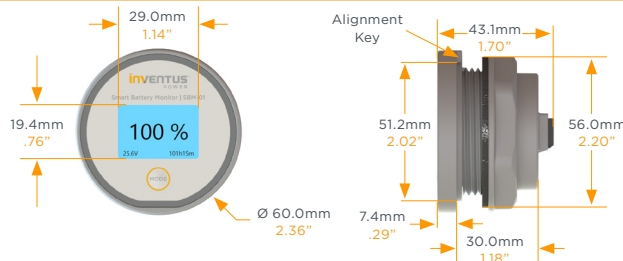- Integrated **CAN termination resistor**

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

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)

Operational Specifications

Operating Temp	-30°C to 70°C
Storage Temp	-40°C to 80°C
Humidity (Operating)	5% to 85%

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All data in this publication is for reference use only. Models may vary from shown. *Front panel ingress protection when installed

	PROTRXion™ 48V60-TRX-HD Smart Battery Monitor Kit **Part Number: 903-09472-002**	PROTRXion™ Smart Battery Monitor Kit **Part Number: 903-09472-003**
Picture (not to scale)		
Compatible Battery Models	S/M-48V60-TRX-HD	S/M-24V80-TRX S/M-24V90-TRX S/M-36V80-TRX S/M-48V60-TRX†
Cable Length	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**
Picture (not to scale)		
Compatible Battery Models	S-12V100-TRX-HD S/M-24V60-TRX	S/M-12V40-U1 S/M-24V20-U1
Cable Length	2.0 meters	2.0 meters

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