# **SMART**

# BATTERY MONITOR USER GUIDE



Please read through the guide in detail before installing and using your new battery indicator. Should you have any questions concerning safety precautions, installation or use please contact us at info@appbattery.com or call +86-755-23762949

The BM16 Smart Battery Monitor is a high-precision meter that allows you to check the status of your battery via your smartphone with the smart battery monitor app. Through the use of a 75A/150A/500A/750A current shunt, the battery monitor measures the discharge or recharge currents and calculates the Ampere-hours (Ah) going in and out of the battery. High-precision voltage measurements are taken and displayed in real-time through the use of a field-installed sense wire. BM16 Smart battery monitor is well-suited for lithium, lithium Ion, lead-acid and nickel-metal hydride batteries. **DATA DISPLAYED:** 

#### Battery Voltage Battery Current

- - Battery State of Charge (SOC)
- **Total Ampere-hours** Remaining time

PRODUCT INTRODUCTION

- Power
- **APPLICATIONS:**

### (Suitable for traction/mobile and stationary applications) Golf Cars & Utility Vehicles

Floor Cleaning Machines AW/P

- Marine
- RV
- Solar
- Backup
- **ELECTRICAL PARAMETERS**

Voltage	8.0	120.0	V
Current	0.0	75.0	A
	0.0	150.0	A
	0.0	500.0	A
	0.0	750.0	Α
Capacity	0.1	999.0	Ah
Temperature	0.0	35.0	°C
Active Parasitic Current		15.0	mA
Standby Parasitic Current		2.0	mA
Sleep Parasitic Current		60.0	uA
Voltage Accuracy	±1		%
Current Accuracy	±1		%
Capacity Accuracy	±1		%
<ul><li>NCLUDED COMPOI</li><li>Current shunt (Sample</li><li>Shielded wire (1 Meter</li></ul>	er)		

## Sense wire 22AWG (1 Meter)

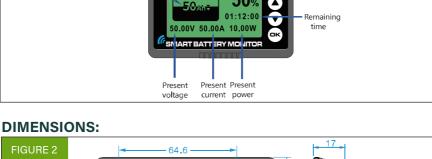
- ADDITIONAL COMPONENTS NEEDED FOR INSTALLATION:

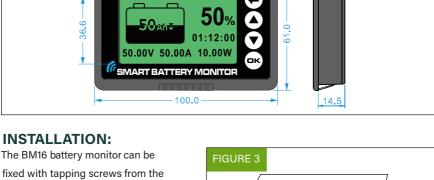
Display

1A fuse (recommended)

#### Additional battery cable (for the negative terminal) Knock out tool (for panel-mount applications).

- **BATTERY INDICATOR INTERFACE:** 
  - Residual capacity FIGURE 1

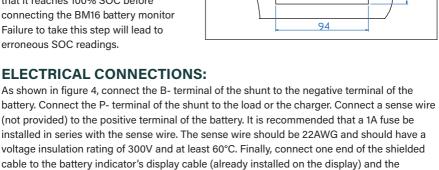




#### Fully charge the battery bank such that it reaches 100% SOC before

connecting the BM16 battery monitor Failure to take this step will lead to erroneous SOC readings. **ELECTRICAL CONNECTIONS:** 

front of panel as figure 3 show. PREPARATION STEPS:



Panel

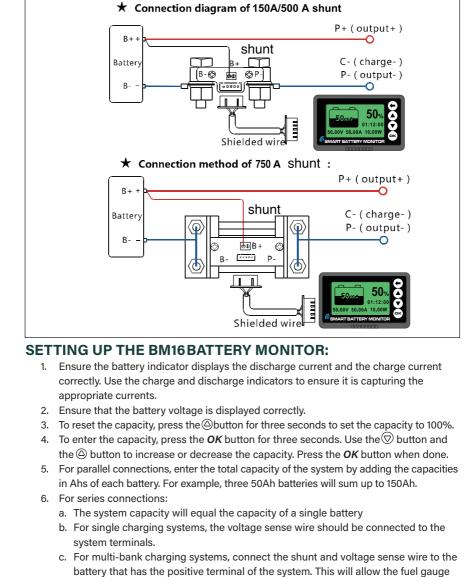
57

Capacity percentage

## other end of the shielded cable the current shunt. ★ Connection diagram of 75A Shunt:

P+ (output+) shunt Battery C- (charge-) P- (output-

Shielded wire



# to monitor one battery to represent all the batteries in the system.

Install the Smart Battery Monitor app via Google Play™ or the Apple App Store.
You can search for "Smart Battery Monitor ",or use the respective QR codes below.

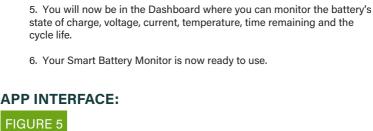
**CONNECTING TO THE SMART BATTERY MONITOR APP** 

2. Open the app and Select the Battery Monitor by its serial number.

required followed by tapping "Save Setting" on the bottom.

3. At the "Basic Setting" screen, enter the battery parameter information

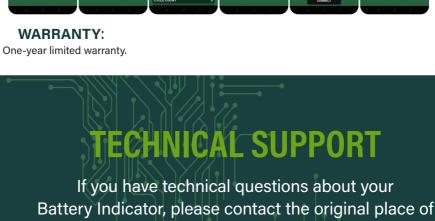
4. Tapping the setting botton on the top right, into the "Calibration" screen, enter the battery parameter information required followed by tapping



"Save Setting" on the bottom.







info@appbattery.com +86-755-23762949

www.appbattery.com

purchase or APPbattery directly: