

BATTLite Fuel Gauge Quick Guide

PSBAT5000-A



— All specifications are subject to change without prior notice.

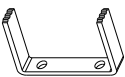
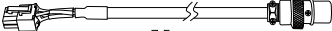
1. Product profile

Thank you for using this multifunctional LCD electricity meter, which can display the battery level, voltage, current and fault information. In addition, it supports sound alarm, Bluetooth and CAN communication, and has a wide range of applications.

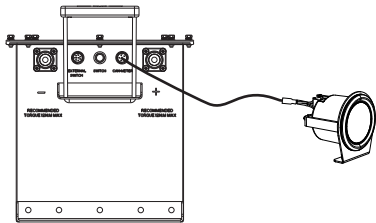
2. Features

Real-time monitoring: supports Bluetooth and CAN communication, and displays information such as battery level, voltage, current and fault in real-time. Sound alarm: gives a sound prompt when the battery level is too low or abnormal. Simple installation: adopts circular design and is easily installed with a panel or a mounting bracket (provided with the product). Low power consumption: the operating power consumption is less than 0.5 W. Bluetooth: more detailed battery information is available via the Lithium app.

3. Packing list

①  Electricity meter (1 pcs)	②  Mounting bracket 1 (1 pcs)	③  Mounting bracket 2 (1 pcs)
④  M4 flange nuts (4 pcs)	⑤  M4*16 bolts (2 pcs)	
⑥  3.5m Meter connecting wire harness (1 pcs)		

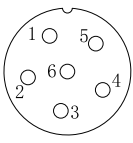
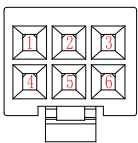
4. Wiring



Before using the electricity meter, please carry out a thorough check to ensure that the meter is functioning without any damage. Details are as follows:

- (1) Whether the electricity meter is in good contact with the battery and whether the harness is firmly connected;
- (2) Whether the current and voltage of the electricity meter are displayed normally;
- (3) Whether the electricity meter is intact and free of obstructions;
- (4) Whether the electric meter is in normal operating condition.

After the battery is powered on, the electricity meter starts up automatically; after the battery is powered off, the electricity meter automatically shuts down.



Hole position	Cable marker	Hole position	Cable marker
1	CANL	4	CANH
2	5V+	5	5V-
3		6	

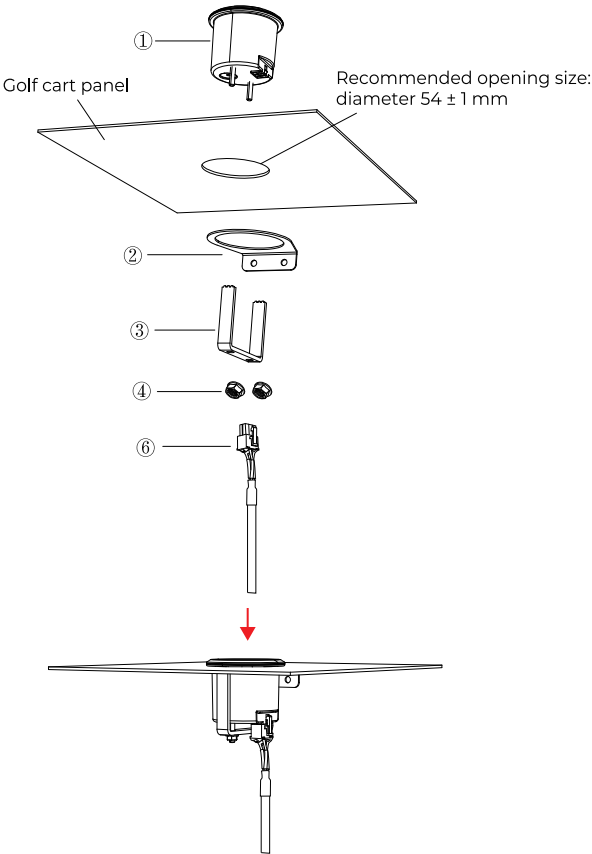
Meter plug

Hole position	Cable marker	Hole position	Cable marker
1	5V-	4	5V+
2	CANH	5	Debug CANL
3	CANL	6	Debug CANH

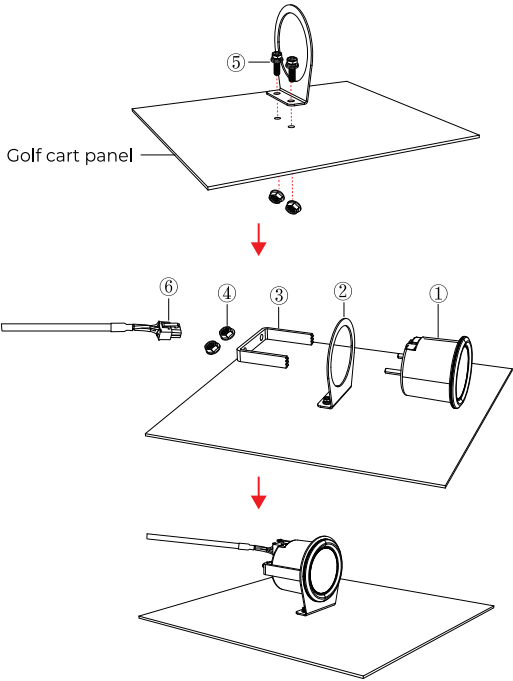
Battery plug

5. Installation

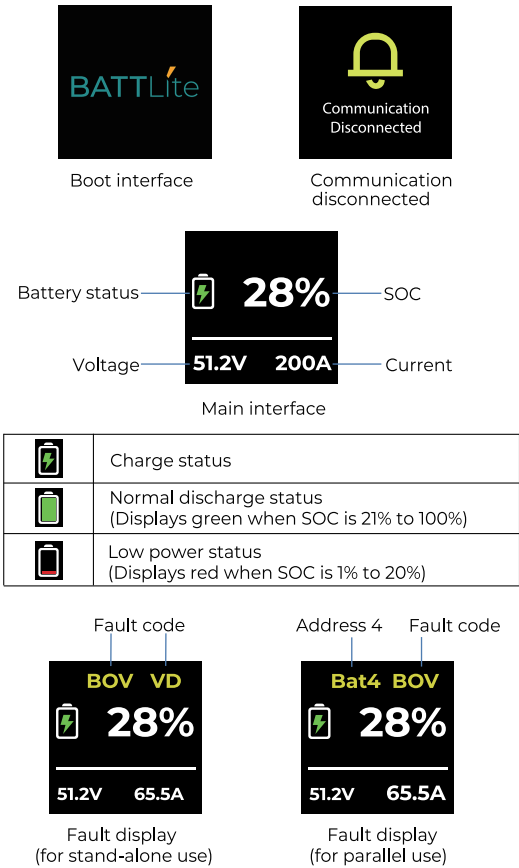
(1) Installation Mode I



(2) Installation mode II



6.Display interface



Notice:

Display “Communication Disconnected” when the communication of the electricity meter is lost;

In the event of a battery fault, a fault code will be displayed at the upper right of the main interface of the electricity meter;

When the battery SOC is lower than 15%, the SOC value will be flashing.

7. Fault display code

Display code	Fault	Solution
BOV	Battery overvoltage (total voltage)	Stop downhill/charging
COV	Battery overvoltage (cell)	Stop downhill/charging
BUV	Battery undervoltage (total voltage)	Charge the battery in time due to low battery level
CUV	Battery undervoltage (cell)	Charge the battery in time due to low battery level
COT	Too high temperature (charge)	Stop using and stand it still for a period of time
DOT	Too high temperature (discharge)	Stop using and stand it still for a period of time
CLT	Too low temperature (charge)	Stop using
DLT	Too low temperature (discharge)	Stop using
COC	Charge overcurrent	Stop charging and use a special charger to charge
DOC	Discharge overcurrent	Slow down/reduce the load
VD	Voltage differece fault	Stop using and use the upper computer to monitor the cell condition
TD	Temperature difference fault	Stop using and use the upper computer to monitor the temperature of the cell
RM	Relay fault/mos failure	Stop using and replace the relay/BMS
HF	Hardware fault(AFE acquisition fault, temperature acquisition fault)	Stop using and use the upper computer to monitor the battery condition

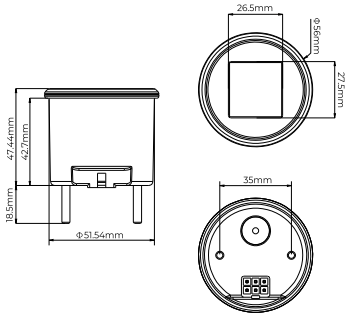
8.Buzzer

Status	Sound frequency	Duration	Description
SOC < 20%	Rapid	10 Sec	Charge the battery in time due to low battery level
SOC < 10%	Rapid	20 Sec	Charge the battery in time due to low battery level
Fault	Slow	20 Sec	Perform immediate troubleshooting

9.Technical specifications

Input voltage range	5V-12V
Input current (MAX)	100mA
Input power	<0.5W
Operating temperature	-20~60 C
Relative humidity	5~90%RH
Protection level	Panel IP67 bottom: IP54
Installation mode	Panel or Bracket
Display content	SOC, battery voltage, cell voltage, current, operating status, fault code
With a buzzer or not	Yes
Dimensions (D×H)	Φ56 x 66mm
Weight	115g

10.Product dimension figure

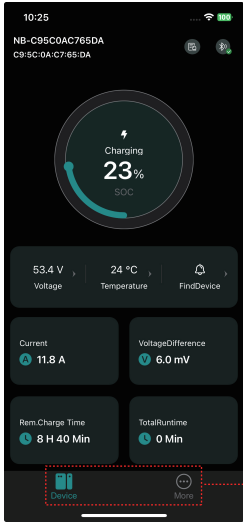


11.APP

Download method:



Main interface:



“Device”:
You can view the device’s SOC, operating status, voltage, current, temperature, fault information, etc.

“More”:
You can set your personal language, modify the Bluetooth name, upgrade the device, view company information, etc.

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