

Green Marine Lithium Battery Guide

The Green Marine Lithium battery chemistry is lithium iron phosphate (LiFePO₄ or LFP) the safest and most stable of any commonly used lithium battery. All Green Marine Lithium Batteries come with Battery Management Systems (BMS).

BMS

The BMS protects lithium battery cells against over-charge, under-charge, low and high temperatures surges and short circuiting. The BMS also provides integrated cell balancing, temperature and voltage control system. The BMS will turn off loads or charges accordingly to any breach in the preset parameters within the BMS. All Green Marine Lithium battery has Bluetooth connectivity to allow customers to monitor and control the battery performance and to ensure the battery has the stated capacity.

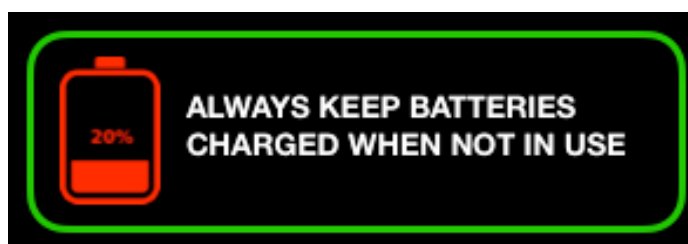
Always keep any lithium battery fully charged when not in use. Ensure lithium batteries are continually topped up whilst in storage and check weekly via the Bluetooth app as all BMS's consume power when in storage. Fully charge batteries after use and check weekly or leave charger connected and switched on. Ensure the correct voltage charger is always used.

Android: download the smart BMS APP in the Android Application Center <https://play.google.com/store/apps/details?id=com.inuker.bluetooth.daliy&hl=zh>

iPhone: Search for SMART BMS in App Store. Click this link to jump directly to download <https://apps.apple.com/cn/app/smart-bms/id1519968339>

Other devices can be installed directly by clicking the link below https://www.dalyelec.cn/daly/SMART_BMS.apk

IMPORTANT: ALWAYS KEEP BATTERIES CHARGED WHEN NOT IN USE.



After downloading and installing, the following smart BMS icon will appear on the device:



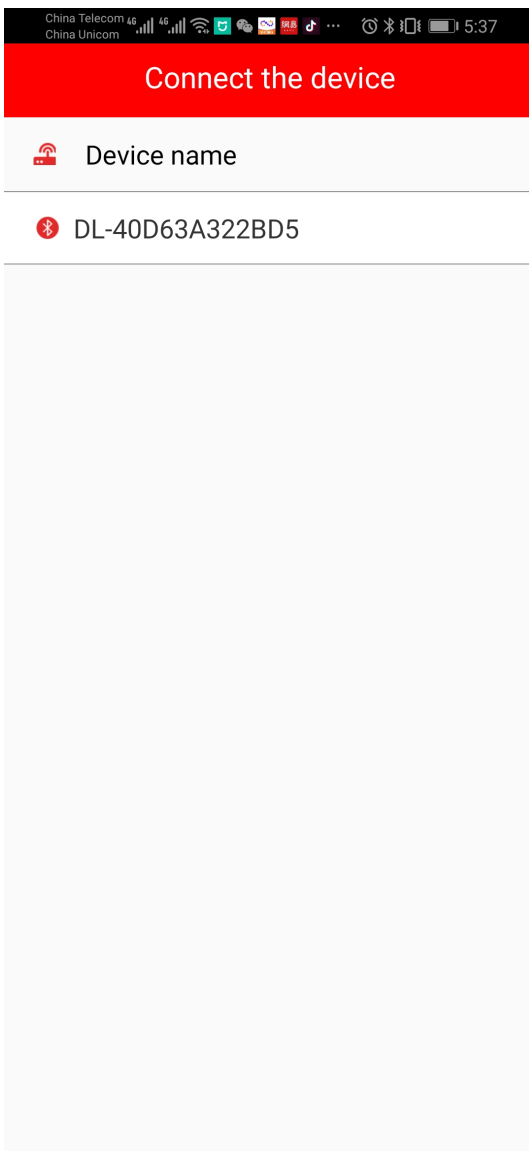
ANDROID



APPLE IOS

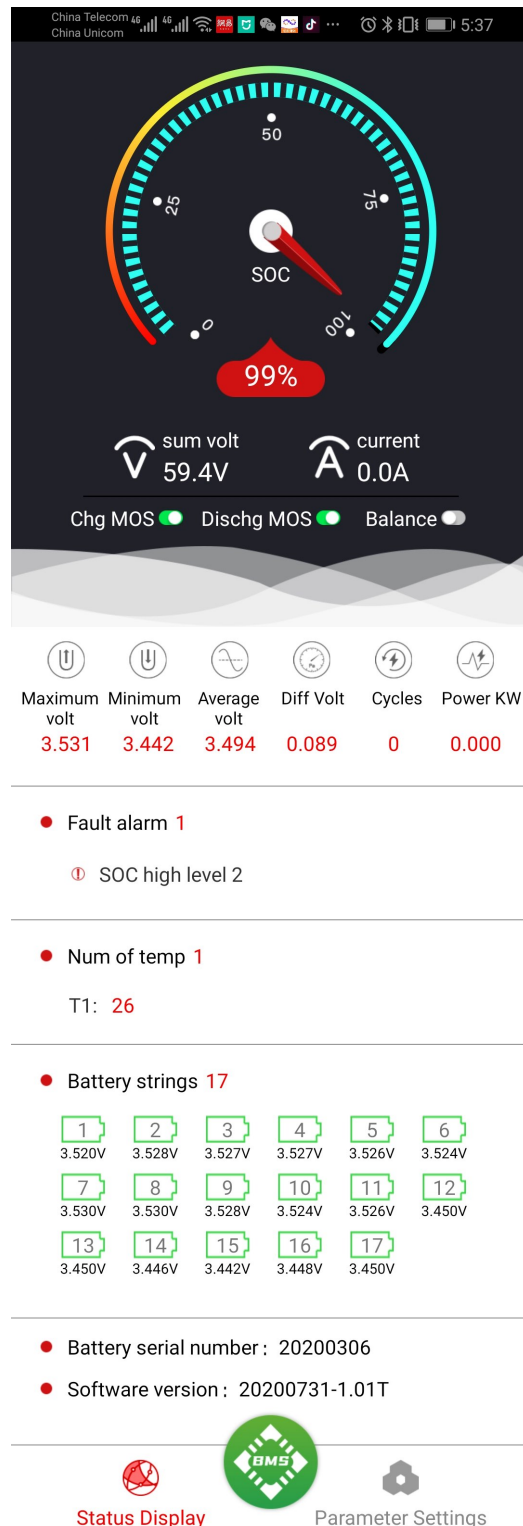


Click to enter the APP and select the corresponding Bluetooth. The first time it needs to be charged and activated.



Click the Bluetooth serial number to enter the real-time status interface.
View; real-time voltage, current, the percentage of battery capacity remaining SOC %, the MOS state of charging and discharging, whether the balance is on, etc.

This is now operational and no further setting changing are required.




Parameter settings interface:

- ①Protection parameters
- ②Battery core characteristics
- ③Collection board settings
- ④Temperature protection
- ⑤Charge and discharge control

Note: To ensure the stability of the data, it is not recommended to adjust these parameters or preset settings.


①In the protection parameter interface, the protection values of voltage and current can be set.

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 **Parameter Settings**


Protection parameters
Cell characteristics
Collect board settings
Temp protection
Put to control

Project	Machine	Setting	
cell volt high protect	4.25V	<input type="text" value="enter"/>	<input type="button" value="Set"/>
cell volt low protect	2.70V	<input type="text" value="enter"/>	<input type="button" value="Set"/>
sum volt high protect	72.20V	<input type="text" value="enter"/>	<input type="button" value="Set"/>
sum volt low protect	45.90V	<input type="text" value="enter"/>	<input type="button" value="Set"/>
diff volt protect	0.15V	<input type="text" value="enter"/>	<input type="button" value="Set"/>
chg overcurrent protect	45.0A	<input type="text" value="enter"/>	<input type="button" value="Set"/>
dischg overcurrent protect	45.0A	<input type="text" value="enter"/>	<input type="button" value="Set"/>



Status Display





Parameter Settings

②In the battery cell characteristics, you can set the total capacity of the battery, the remaining capacity, and the balanced opening conditions.

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Parameter Settings

Protection parameters
Cell characteristics
Collect board settings
Temp protection
Put to control

Project	Machine	Setting	
type of battery	Li-ion	Set	
rated capacity	50.0AH	<input type="text" value="enter"/>	Set
cell reference volt	3.60V	<input type="text" value="enter"/>	Set
sleep waiting time	65535S	<input type="text" value="enter"/>	Set
SOC set	99.1%	<input type="text" value="enter"/>	Set
balanced open start volt	3.80V	<input type="text" value="enter"/>	Set
balanced open diff volt	0.07V	<input type="text" value="enter"/>	Set




③ In the collection board setting interface, it needs to be set together with the hardware device. It is not recommended to adjust this setting.

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⚙️ Parameter Settings


Protection parameters
Cell characteristics
Collect board settings
Temp protection
Put to control

Project	Machine	Setting	
boards num	2	<input type="text" value="enter"/>	Set
board 1 cell num	11	<input type="text" value="enter"/>	Set
board 2 cell num	6	<input type="text" value="enter"/>	Set
board 3 cell num	0	<input type="text" value="enter"/>	Set
board 1 temp num	1	<input type="text" value="enter"/>	Set
board 2 temp num	0	<input type="text" value="enter"/>	Set
board 3 temp num	0	<input type="text" value="enter"/>	Set



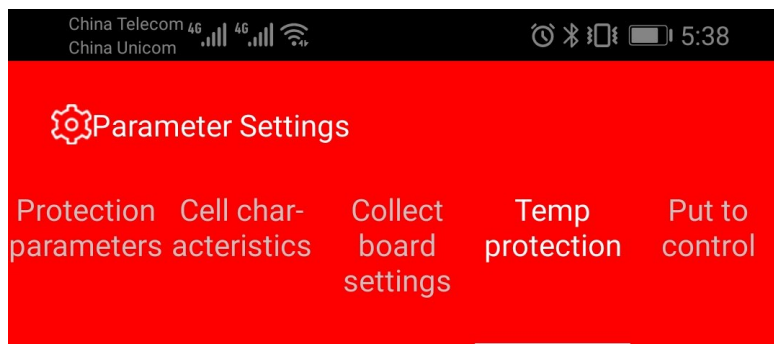
Status Display





Parameter Settings

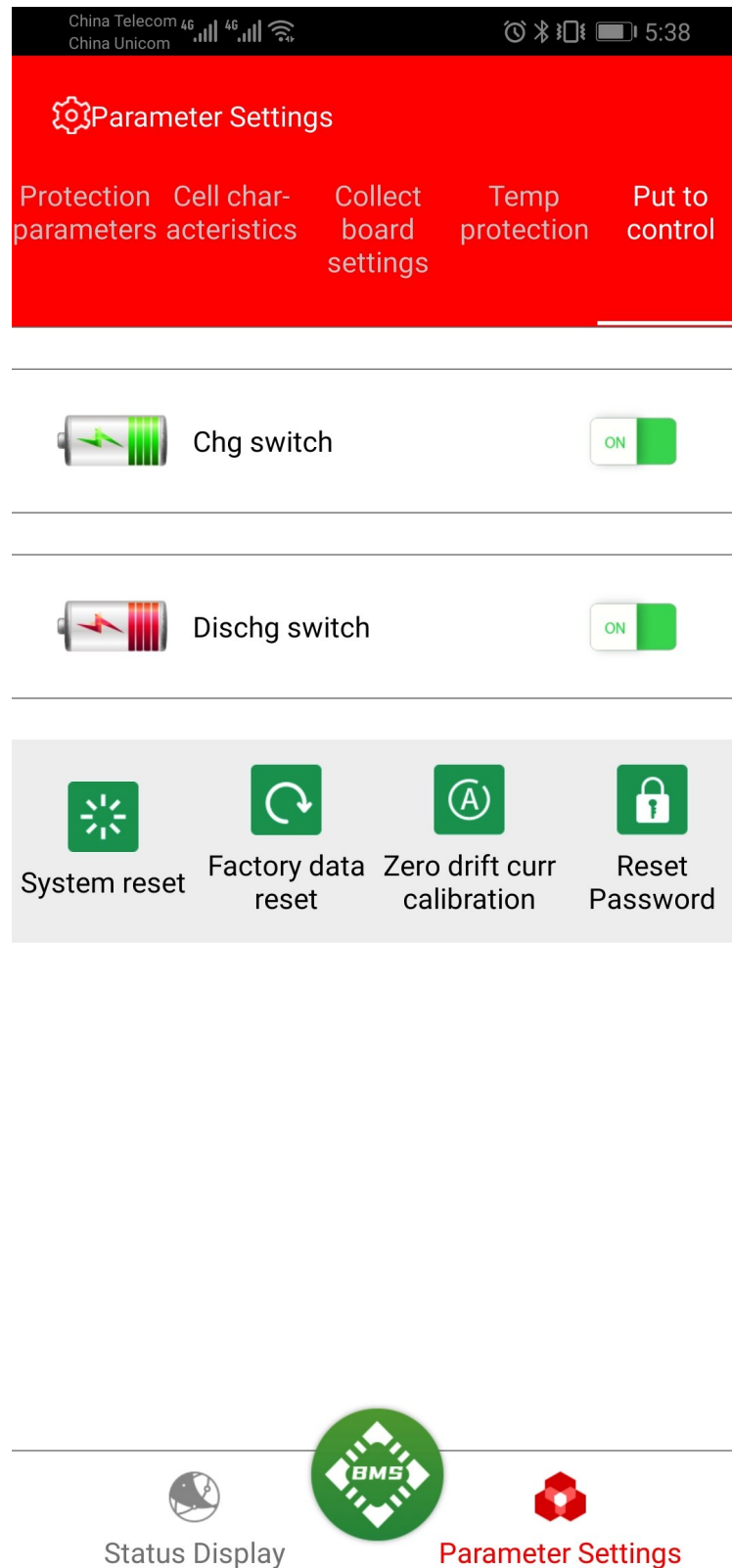
④ In the temperature protection setting, the protection temperature of charge and discharge can be set. It is not recommended to adjust this setting.



Project	Machine	Setting	
chg high temp protect	65°C	enter	Set
chg low temp protect	-40°C	enter	Set
disChg high temp protect	70°C	enter	Set
disChg low temp protect	-40°C	enter	Set
diff Temp protect	15°C	enter	Set
MOS temp protect	47°C	enter	Set



⑤ On the charge and discharge control interface, you can switch the charge and discharge MOS tube, and you can reset the password.



The introduction to the simple tutorial of using the mobile phone APP to connect to the Lithium BMS is complete.

IMPORTANT:

ALWAYS KEEP BATTERIES CHARGED WHEN NOT IN USE

Fully charge batteries after use and check at weekly or leave charger connected and switched on. Ensure the correct voltage charger is always used.

