Bluetooth Operating Instructions

Catalog

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About Xiaoxiang App

Xiaoxiang app is an app specially developed for lithium battery . It is mainly used to read the voltage, charging and discharging current, protection status and parameter setting function of lithium battery protection board, so that users can clearly understand the health status of lithium battery and ensure the safety of lithium battery. By adding the functions of dashboard, GPS test and power display, users can better understand the driving status.

Chapter 1 About Bluetooth Battery Management System

1.1 Android Installation

● Scan QR code to download the APP：

1.2 IOS Installation

● Apple Store Search：xiaoxiangdiandong （Download APP）

Chapter 2 Operating of Xiaoxiang electric App

2.1 APP Operating environment

Xiaoxiang electric app can be installed on Android version 4.3 or above & Apple system, and can be used on Bluetooth 4.0 devices. It can only be run after obtaining the permission of Bluetooth and GPS.

2.2 Bluetooth connectivity

In the connection interface, scan the surrounding Bluetooth 4.0 devices, click the connection device, and app will automatically identify whether the device supports the device. If it supports, it will enter the instrument board table interface. If it does, it will prompt the user that the device is not supported and disconnect.

2.3 Battery status meter

1. Display the percentage of battery power

2. Display the battery usable current

3. Displays the total battery voltage

4. Display battery voltage range of each series
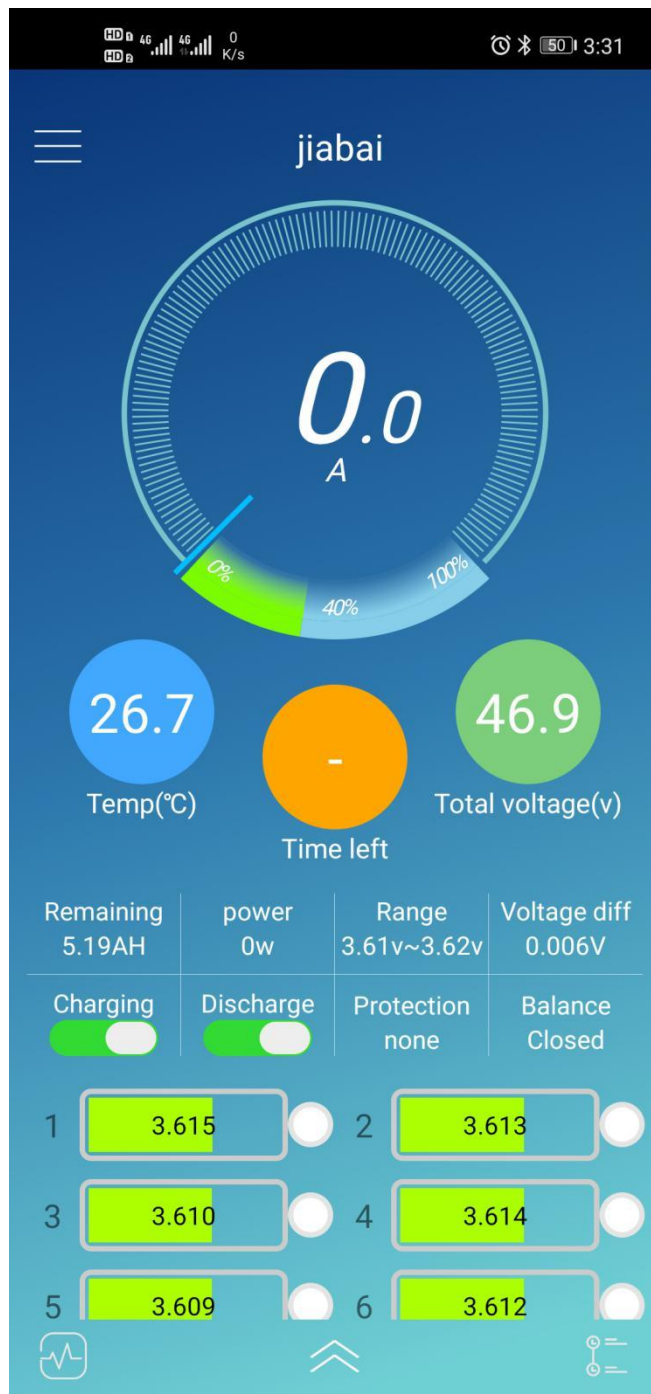
2.4 Battery basic information reading

1. Read the basic information of the battery, display the current battery temperature, and the number of battery cycles.

jiabai

Basic Information　　　battery vo

Total voltage	53.28V
Current	0.00A
Serial number	13s
Average voltage	4.10V
Charging switch	on
Discharge switch	on
Temperature number	1
Temp-1	26.0
Date of manufacture	2019-11-29
Cycles	10times
Nominal capacity	13.00AH
Remaining capacity	12.08AH
Percentage capacity	93%

2. Read the battery protection information, so that users can better understand the current power failure reasons, so as to make timely response measures

jiabai

Basic Information   battery vo

Cell undervoltage	no
Pack overvoltage	no
Pack undervoltage	no
Charging over-temperature	no
Charging low-temperature	no
Discharge over-temperature	no
Discharge low-temperature	no
Charging over-current	no
Discharge over-current	no
Short circuit	no
IC front-end error	no
Locking	no
Charge timeout Close	no

2.5 Cell voltage display

1. Display the voltage of each series of batteries in real time, so that users can quickly monitor the status of each string of batteries

2. Display equilibrium status

2.6 Battery pack protection information

Record the protection information of the battery pack, so that the maintenance personnel can locate the problem more quickly

2.7 Display of lithium battery protection parameters

Users can view all parameters on the protection board, so as to clearly understand the protection action of the battery and the opening conditions of the release action

Overvoltage	4.25V
Overvoltage release	4.15V
Overvoltage release delay	2.0S
Undervoltage	2.8V
Undervoltage release	3.0V
Undervoltage release delay	2S
Pack overvoltage	55.25V
Pack overvoltage release	53.95V
Pack overvoltage release delay	2.0S
Pack Undervoltage	36.4V
Pack Undervoltage release	39.0V
Pack Undervoltage release delay	2S
Charging over temperature	75.0℃
Charging over	55.0℃

2.8 Parameter setting of lithium battery protection

According to the state of the cell and the characteristics of the electric equipment, the user can adjust the parameters to make the protection board, battery and electric equipment work more coordinately and reach the optimal working state

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POLYMER NORMAL	POLYMER LIGHT
LIFEPO4 NORMAL	LIFEPO4 LIGHT

Base Params ›

Battery series	13	s
Nominal capacity	13.0	Ah ?
Galvanometer resistance	0.2	mR ?

protection params ›

Overvoltage	4.25	V ?
Overvoltage release	4.15	V ?
Overvoltage release delay	2.0	s ?
Undervoltage	2.8	V ?
Undervoltage release	3.0	V ?
Undervoltage release delay	2	s ?
Pack overvoltage	55.25	V ?
Pack overvoltage release	53.95	V ?
Pack overvoltage release delay	2.0	s ?