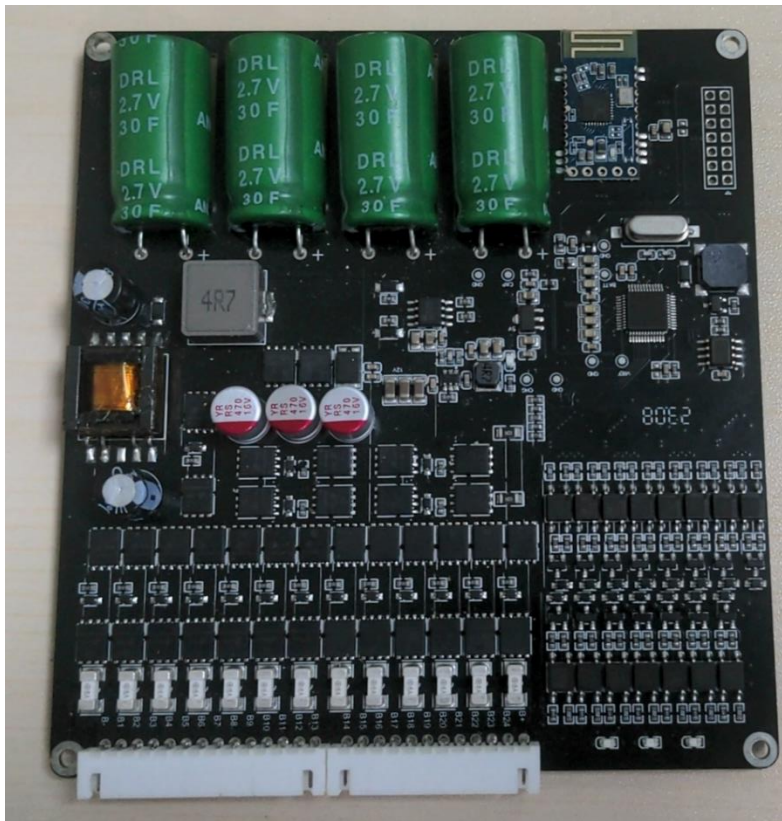# Gobel Power 4A Bluetooth Balancer
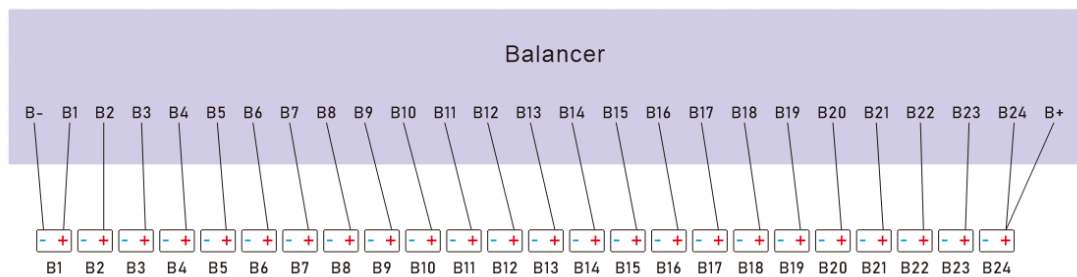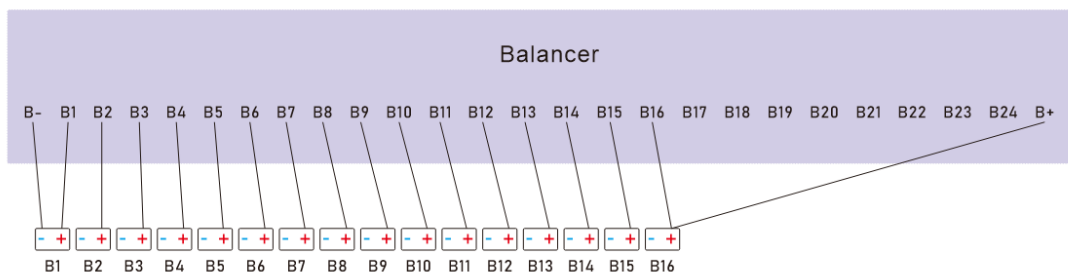
Connection Diagram:

24S Connection Diagram

16S Connection Diagram

APP Download

1. Android : https://play.google.com/store/apps/details?id=com.enerkey.app

2. Iphone: https://apps.apple.com/us/app/enerkey/id6447932138

Using APP

First of all turn on the Bluetooth function of the phone, then open the APP, as shown in Below, Click the icon in the upper left corner to scan the device, After scan, click the name of the device to be connected(eg"24S4EB").

Please turn on Bluetooth, give permission requested, such as Location, otherwise device cannot be found.
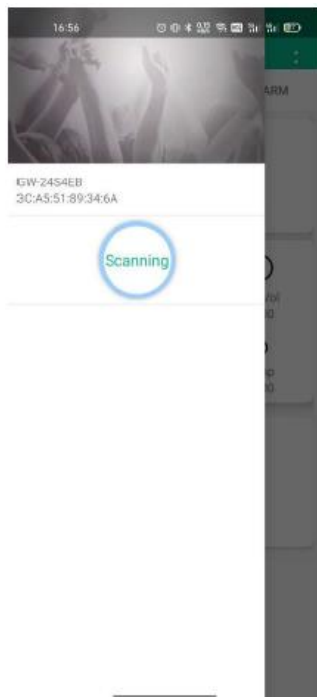
After successfully connected, App will show:
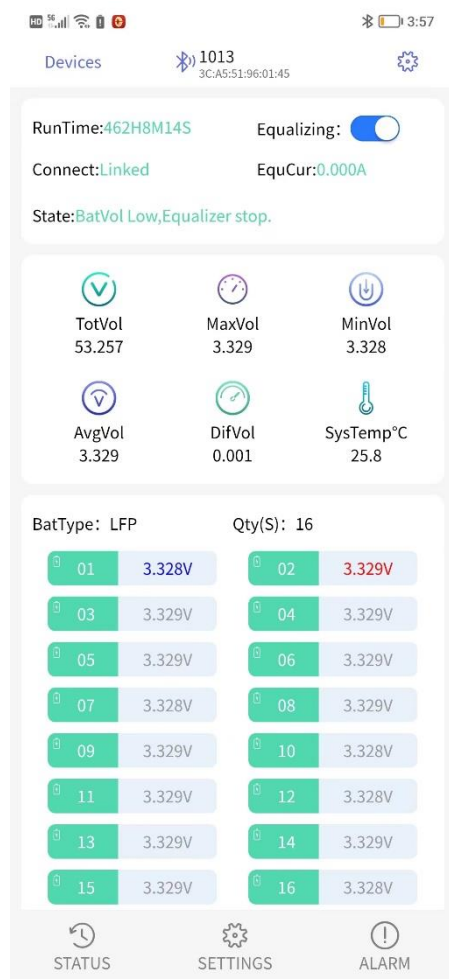
In the real-time status page, you can check the Cells voltage, battery voltage, maximum delta-voltage, Cells voltage average, balance state, balance-current, cells wire resistance and other information.

The definitions of each parameter in Settings are as follows (default password: 123456):

a) Cells count

The "cells count" represents the number of cells in the current battery pack. Please set this value accurately before using, otherwise the balancer will not work properly (maybe note " Cell count is not equal to settings " in STATUS page with blink).

b) trigger balance delta-voltage

The trigger balance delta-voltage is the only parameter that controls the balance. With the balance switch on, when the maximum delta-voltage of the battery exceeds this value, the

balancer starts to balance until the balance completed when the "Maximum delta-voltage" falls below this value.

For example, set the trigger balance delta-voltage to 0.01v, start balance when Maximum delta-voltage of the battery is greater than 0.01v, and finish balance when it is lower than 0.01v.(it is recommended to set the trigger balance delta-voltage for batteries above 50AH as 0.005v, and for batteries below 50AH as 0.01v).

c) Maximum balance current

balance current represents the continuous current of high voltage cell battery discharge and low voltage cell battery charge during energy transfer. The maximum balance current represents the maximum current in the energy transfer process, and the maximum balance current should not exceed 0.1C.

For example: 20AH battery not exceeding 20*0.1=2A.

The maximum balance current can be set is 4A.

d) Voltage calibration

The voltage calibration function can be used to calibrate the voltage acquisition accuracy of the balancer.

When the battery voltage display on the balancer is found to be in error with the voltage of the battery, the voltage calibration function can be used to calibrate the balancer. The calibration method is to fill in the current battery voltage measured by the multimeter, and then click on the " SET " icon behind the voltage calibration box to complete the calibration.

Note: after any parameter is modified, click the "SET" icon beside the parameter box. when the balancer successfully receives the parameter, there is a beep sound.

Default Settings: (Password: 123456)

Devices	05071017 2B:80:03:F2:4D:B6	⚙
Qty(S)	16	Setting
Startup DifVol(V)	0.050	Setting
Max EquCur(A)	4.000	Setting
StopVol(V)	3.400	Setting
RunVol(V)	3.450	Setting
Soc(Ah)	280	Setting
BatType	LFP	Setting
Buzzer	OFF	Setting

STATUS   SETTINGS   ALARM