Jk (JiKong) BMS use manual

1. Download app and manual 2. Hardware connection 3. Startup
2. Open the app and connect the device
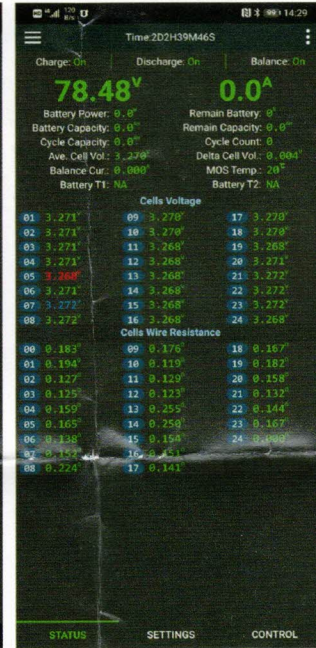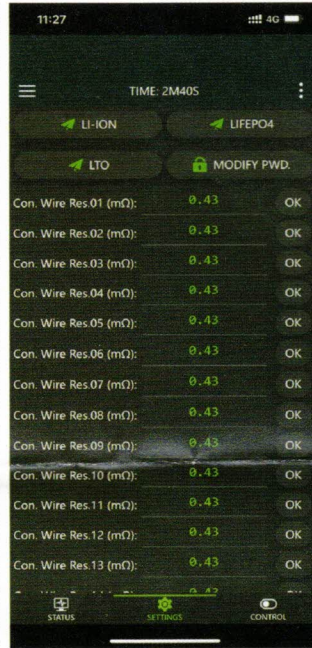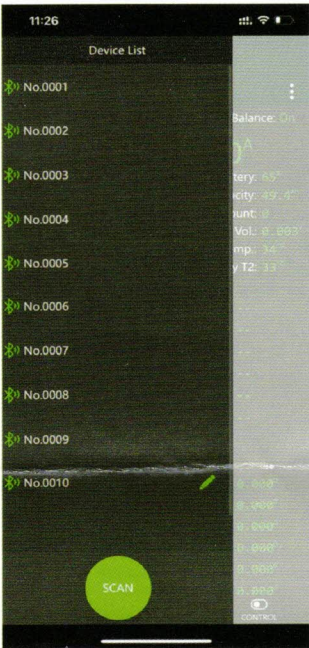3. Set the number of strings and battery type
4. Check the battery status

Instructions： https://github.com/NEEY-electronic/JK/tree/JK-BMS
VenusOS driver： https://github.com/Louisvdw/dbus-serialbattery
BMS protocol to connect to other devices： https://github.com/syssi/esphome-jk-bms

②.Scan the following QR codes to download app, instructions and videos:

③.Connect the protection board and battery pack according to the following wiring diagram,
Make sure that the last power cord is also connected to the main positive pole,
The total voltage of the battery pack must be greater than 20V before starting up.

④.Use the display activation button or additional switch to activate the BMS

⑤.Make sure your mobile Bluetooth is turned on, then turn on APP,
click on the top left corner of APP to search for devices,
and click on the device name to connect to the default password: 1234.

Wiring mode

⑥.Parameters need to be set for the first start-up Setting requires a
password,The default parameter is set to password 123456,
Simply set the number of units and battery type.
⑦.Once the parameters are set, go back to the real-time status page,
check the battery status, no error message is prompted and normal
operation,blue is the highest voltage, red is the lowest voltage.

⑧.Fault analysis and troubleshooting

Do not turn on
1.Ensure that the last "B +" line of the cable has been connected to the positive pole of the battery;
2.Start up after charging and ensure that the charger voltage is greater than 4V of the battery pack voltage
3.Check whether the charger has voltage output

Inaccurate voltage
1.Measure the actual total pressure of the battery pack with a multimeter and fill the actual total pressure
in the "voltage calibration" on the parameter setting page;

Inaccurate current
1.B - and P - of the protection board are two 7awg wires, both of which need to be connected in parallel, o
therwise it will lead to current error;
2.Measure the actual current of the battery pack with a clamp meter and fill the actual current into the "current
calibration" on the parameter setting page; the larger the actual current, the higher the calibration accuracy;
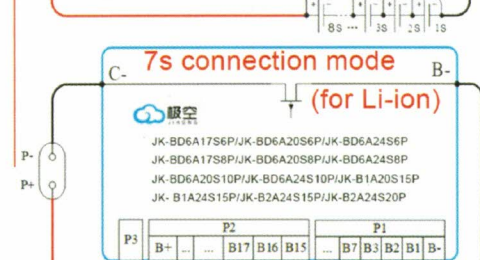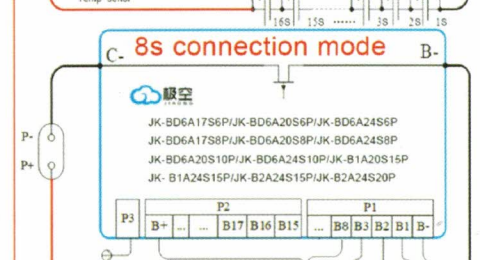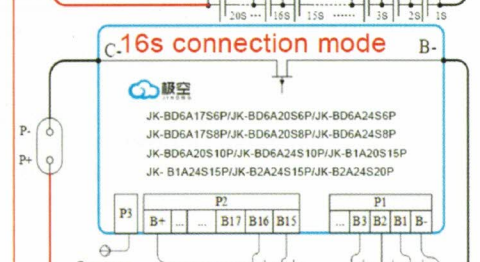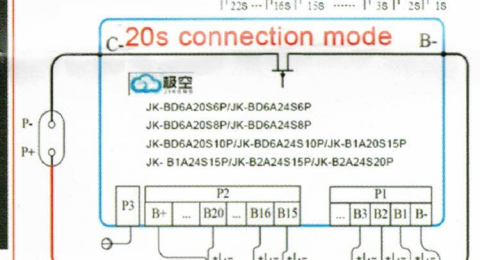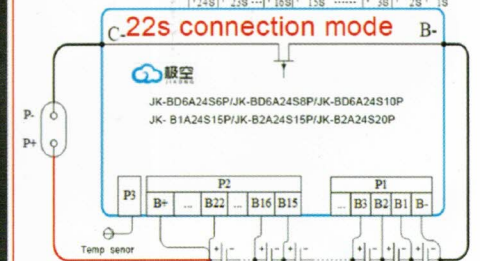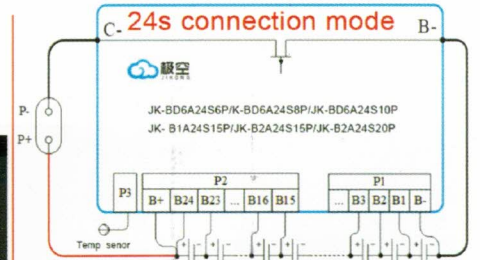
Inaccurate capacity
1.An initial capacity estimated according to the monomer voltage when the protection board is powered on
for the first time, which is inaccurate
2.After the protection board is discharged to the cut-off voltage and then fully charged,the capacity is calibrated,
and the charging process cannot be interrupted;

The designed string number is inconsistent with the actual string number
1. Check whether the "unit quantity" in the parameter setting is set correctly;
2. If there is no voltage in two or more strings in the middle, check whether the acquisition cable falls off

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