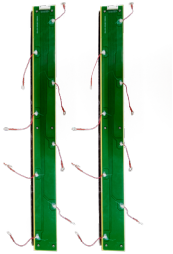
48230KITS Assembly Instructions

Packing list

A (Pre-installed)
Shell*1

B (Pre-installed)
Cover plate*1



C (Pre-installed)
Balance bars*2

D (Pre-installed)
Front plate*1

E (Pre-installed)
Handle*2

F (Pre-installed)
LCD Display*1

G (Pre-installed)
16S 200A BMS*1

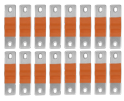
H (Pre-installed)
Temperature
NTC leads*1

I (Pre-installed)
16S voltage
acquisition cable*1

J
USB-RS485
communication cabl*1

K
Fiberglass
Insulation plate*20

L
Screws*16



M
Flexible busbar*16

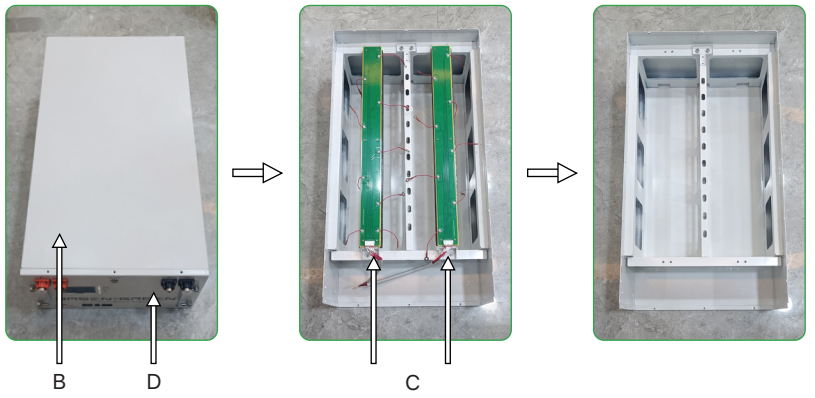
N
Inverter communication cable*1

WARNING:
If any parts are missing, damaged or worn, stop using this KITS. Repair the KITS with manufacturer supplied parts.

IMPORTANT:
Read these instructions carefully before beginning assembly. Failure to follow these instructions may result in serious injury.
Carefully unpack all parts and identify them with the parts list before attempting to assemble the KITS. Remove all cardboard and plastic covering from DIY KITS parts.
Please examine all packing material before discarding it.

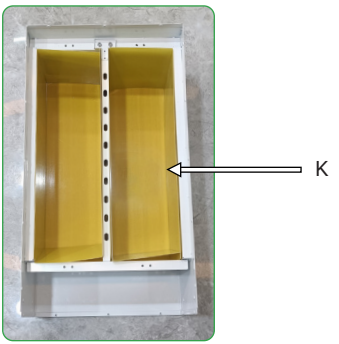
1. Romove the BMS front plate(D), the cover plate(B), and the balance bars(C) as shown in figure 1.

Figure 1



2. Put the fiberglass insulation plate (K) as shown in figure 2.

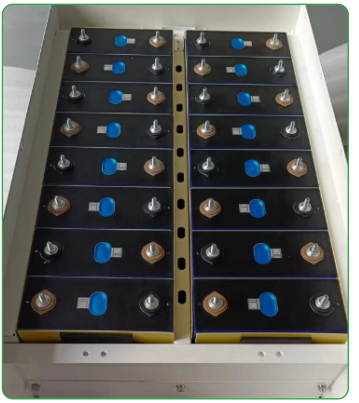
Figure 2

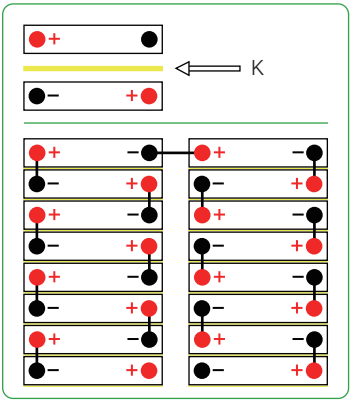


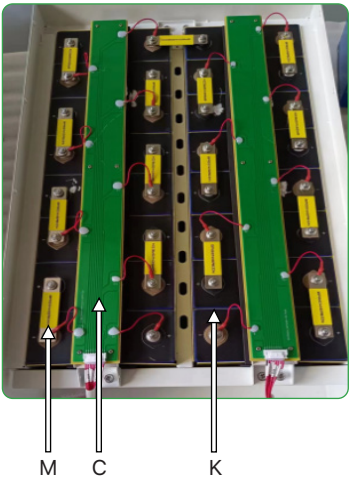
3.Put the cells into the case, connect the cells with the flexible busbars **(M)**, the temperature NTC leads **(H)** and the balance bars**(C)** as shown in figure 3, and the cells should be divided by fiberglass insulation plate **(K)**, as shown in figure 3.

Figure 3

Cell difference within 20mA

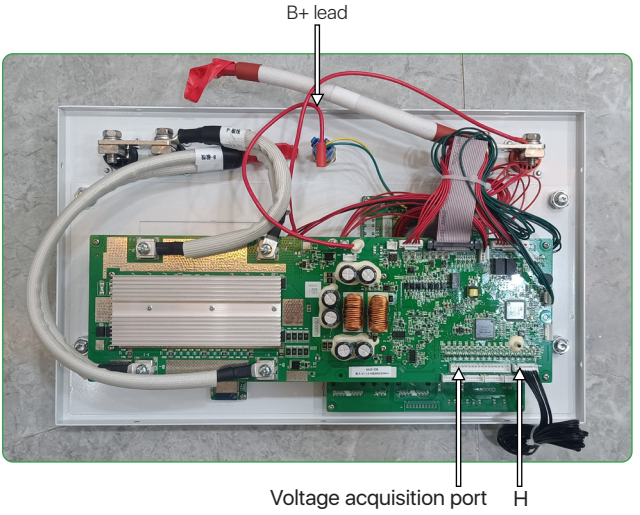






4. Put the BMS front plate**(D)** on, plug the voltage acquisition lead P+ lead to the main positive, and B- lead to the main negative, then put the B+ lead on, and stick the temperature NTC leads**(H)** on the cells by heat proof tape as shown in figure 4.

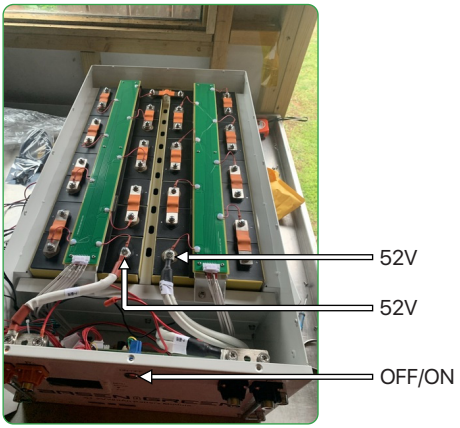
Figure 4



5. Check every connection, the voltage between the main positive and the negative is >52V, then turn the button on, the LCD and the indicator work out, then the assembly operation is completed, as shown in figure 5.

Unbox and install video: https://www.youtube.com/watch?v=6FZf448Nujk&t=22s

Figure 5

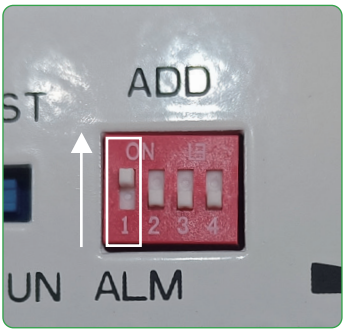


6. **Operation of Upper System and Bluetooth**

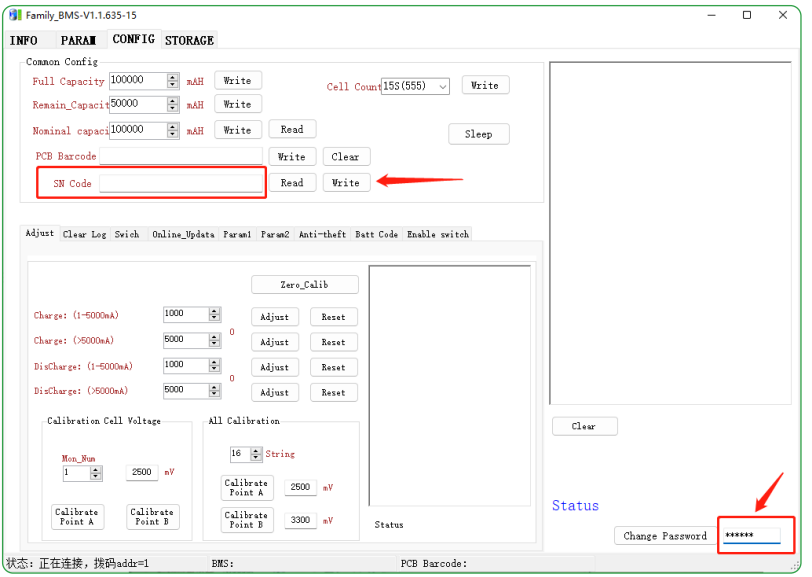
Firstly, connect the USB to RS485 Cable from Battery to the PC/Laptop, dip switch 1 on the front plate, download the PC software and open it.

Secondly, modify the language, and follow the path:
CONFIG—Type the password "888888"—auto goes the interface—SN code—Read—Rename the Bluetooth(Format"TP-XXXX")—Write.

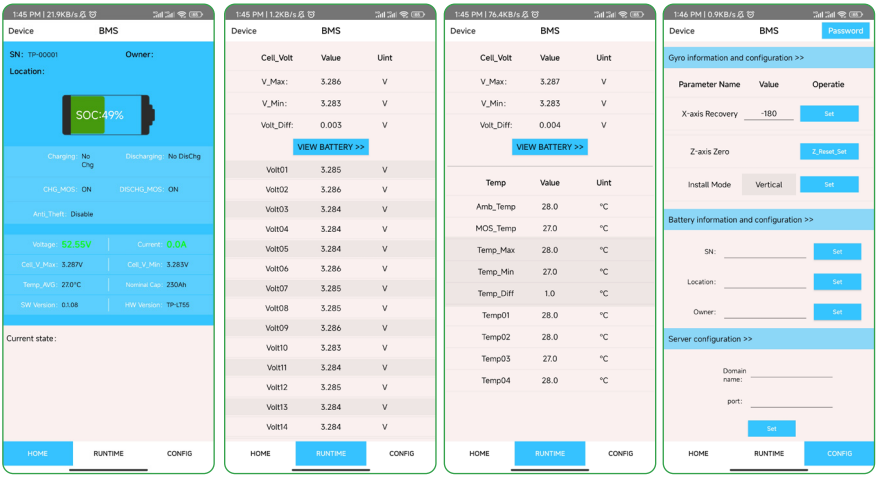
Notice: Please do not modify any other parameter setting without permission.




家储锂电池管理系统V1.1.635-15
监控
参数
配置
存储
单组显示
多组显示
显示记录
并机分组显示
并机分组数据存储
名称
数值
单位
MOS与充放电状态
充电MOS导通
放电MOS导通
充电状态
充电MOS关断
放电MOS关断
放电状态
普通状态
SOH:0.00%
AlarmCode:
SOC:0.00%
其他:
加热状态
风扇状态
保护状态:
SN:
告警状态:
通讯失败
无充放电流
限流不使能
最大电压
最小电压
单体均衡
状态提示
(语言/Language)
简体中文
English
关闭串口
COM3
波特率
9600
拨码地址
Pack数量
从0并机轮询
状态：正在连接，拨码addr=1
BMS:
PCB条码:


Family_BMS-V1.1.635-15
INFO
PARAM
CONFIG
STORAGE
Common Config
Full Capacity
Remain_Capacit
Nominal capaci
mAH
Write
Read
Cell Count
15S(555)
Sleep
PCB Barcode
Clear
SN Code
Adjust
Clear Log
Swich
Online_Updata
Param1
Param2
Anti-theft
Batt Code
Enable switch
Zero_Calib
Charge: (1-5000mA)
Charge: (>5000mA)
DisCharge: (1-5000mA)
DisCharge: (>5000mA)
Reset
Calibration Cell Voltage
All Calibration
Mon_Num
String
Calibrate Point A
Calibrate Point B
mV
Status
Change Password
******
状态：正在连接，拨码addr=1
BMS:
PCB Barcode:

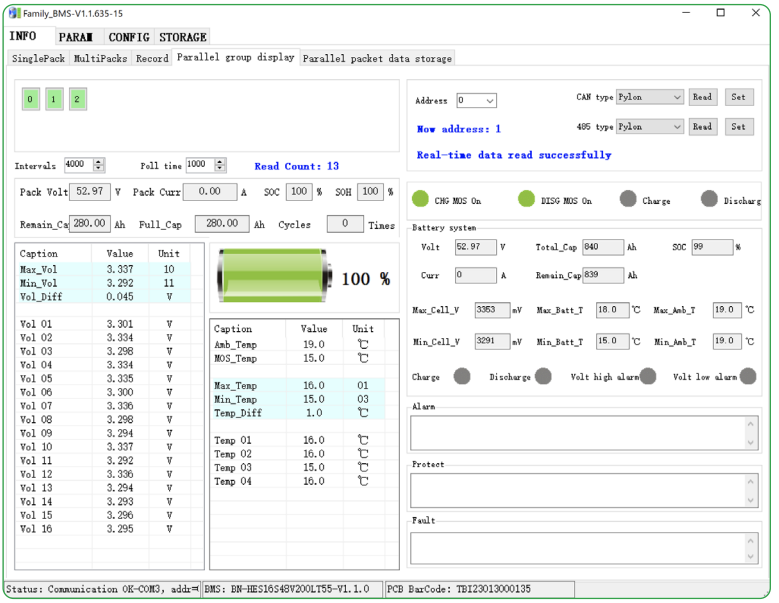
7. Download the APP(Android only, the IOS are developing), click the Bluetooth name to check the status.



8. How to switch the communication protocol.

Open the PC software and follow the path:

INFO—Parallel Group Display—CAN Type/RS485 Type—Read—Choose the protocol—Set



Communication compatible list:

Inverter Brand		Communication method	Protocol Name	Protocol Remarks	Communication Potter rate	Interface Definition
古瑞瓦特-SPF Growatt-SPF	Growatt	485	Growatt BMS-RS485-protocal-1xSxxP_ ESSL _V2.01 Growatt BMS-RS485-protocal-V2.0	MODBUS Standard protocols	9600	1B、2A
古瑞瓦特-SPF Growatt-SPF	Growatt	CAN	Growatt BMS CAN-Bus-protocol-low-voltage-V1.05	Active Upload	500K	4H、5L
古瑞瓦特-SPH Growatt- SPF	Growatt	CAN	Growatt BMS communication protocol of growatt low voltage-V1.01	Active Upload	500K	4H、5L
尚科-Scolar	SACOLAR	CAN	Growatt BMS CAN-Bus-protocol-low-voltage-V1.05	Active Upload	500K	4H、5L
固德威-Goodwe	GOODWE	CAN	Goodwe-CAN-V1.7-220228-SolarinverterFamily-EN	Active Upload	500K	4H、5L
日月元-Voltronic Power	Voltronic Power	485	Voltronic Power-485-V1.03-200325	MODBUS protocols	9600	3B、5A
首航-SOFAR	SOFAR	CAN	SOFAR-CAN-V1.00-211117-Rev6	Active Upload	500K	1H、2L
索瑞德-SOROTEC	SOROTEC Power Solutions Expert	CAN	CAN Protocol 1.0(SOROTEC Protocol)	MODBUS Standard protocols	500K	
索瑞德 SOROTEC	SOROTEC Power Solutions Expert	485	Protocal between Sorotec Inverter and Lithium Battery (RS485)	Active Upload	500K	
德业 Deye	Deye 德业	CAN	Deye LV-CAN communication protocol	Active Upload	500K	4H、5L
德业 Deye	Deye 德业	485	485 Modbus Protocol(4)-deye	MODBUS protocols	9600	1B、2A
锦浪-Solis	solis	CAN	Solis-CAN-V1.0-191228-lowVoltage	Active Upload	500K	4H、5L
鹏城-Luxpower	LUXPOWER TEK	CAN	Luxpowertek Battery CAN Protocol -2021	Active Upload	500K	4H、3L
派能-Pylontech	PYLONTECH	485	Pylon-485-V3.5-161216-low voltage protocol	1363	115200	
派能-Pylontech	PYLONTECH	485	Pylon-485-V3.5-161216-low voltage protocol	1363	9600	
派能-Pylontech	PYLONTECH	CAN	Pylon-CAN-V1.2- 180408 -lowVoltage	Active Upload	500K	
SOL-ARK	Sol-Ark	CAN	Sol-Ark CAN Bus Protocol V1.2.pdf4-25-22	Active Upload	500K	
硕日-Srne	SRNE	485	shuori BMS Modbus Protocol for RS485 V1.3(2020-11-24)	MODBUS	9600	7A、8B
美世乐 Must	MUST 美世乐	CAN	PV1800F-CAN communication Protocol1.04.04	Active Upload	100K	6H、5L
艾思玛 SMA	SMA	CAN	SMA-CAN-V1.0.0-210630-FSS -ConnectingBat-TI-en-20W	Active Upload	500K	4H、5L
迈格瑞能 MEGAREVO	MEGAREVO	CAN	Shenzhen MEGAREVO Hybrid Inverter-5K BMS Protocol V1.01	Active Upload	500K	
MPP Solar	MPP Solar	485	BMS 485 communication protocol 20200325(2)	MODBUS	9600	
拓宝-TBB	TBB POWER	CAN	CAN BUS Protocol of TBB Lithium Battery BMS Platform V 1.1	Active Upload	500K	
盛能杰-Senergy	Senergy 盛能杰	CAN	SenergyINV&BMS_ CAN_Protocols	Active Upload		
维克托-Victron	victron energy	CAN	Victron-CAN-V1.00- 211135	Active Upload	500K	7H、8L