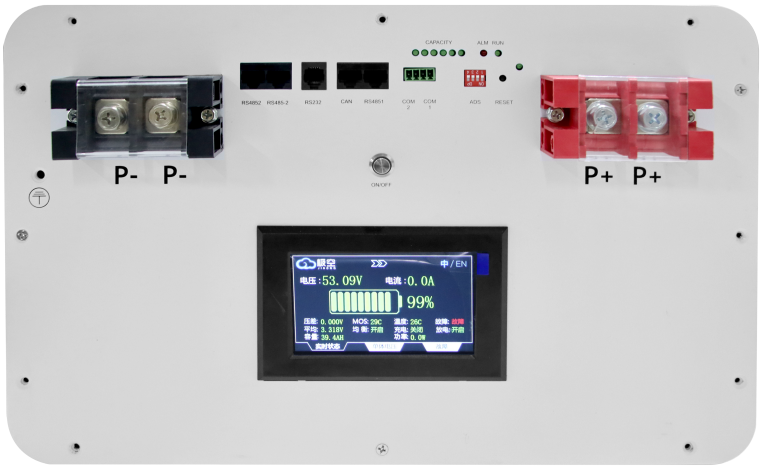
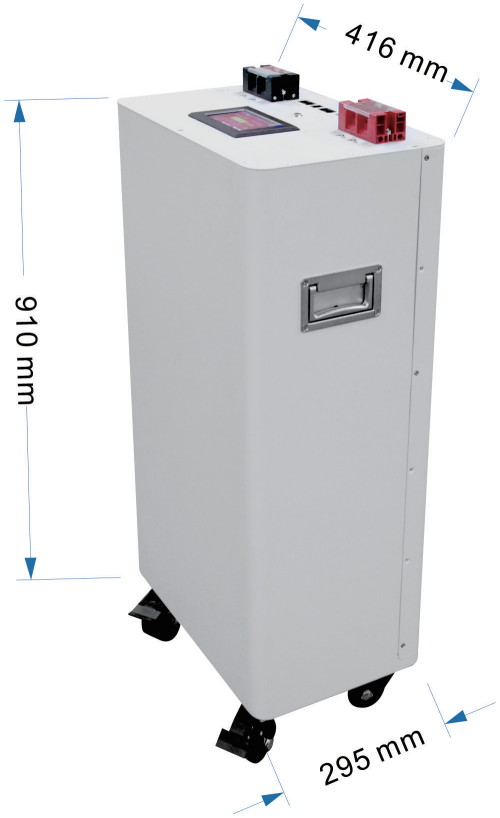
48V 280 DIY BOX

(280/306/314)



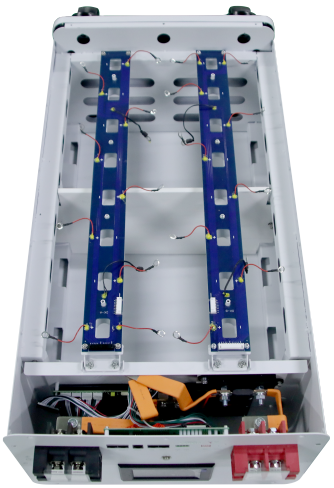
配件清单(Parts List)

名称（Name）	环氧板（Epoxy Plate）	环氧板（Epoxy Plate）	环氧板（Epoxy Plate）	环氧板（Epoxy Plate）	环氧板（Epoxy Plate）	EVA泡棉(EVA foam)	网线(Ethernet cable)
规格（Specification）	293*350*0.5mm	642*352*0.5mm开孔(make holes)	293*205*0.5mm	350*205*0.5mm	202*173*0.5	640*50*2	六类千兆成品高速网络室内外网线500mm(Six - Category Gigabit Finished Network Cable, 500mm)
数量（Quantity）	2	1	6	4	12	2	1
名称（Name）	EVA泡棉(EVA foam)	螺母(nut)	螺丝(screw)	软铜排(Flexible Copper Bar)	软铜排(Flexible Copper Bar)	软铜排(Flexible Copper Bar)	套筒(socket wrench)
规格（Specification）	180*120*2mm	M6法兰螺母(M6 Flange Nut)	M4*8，银色十字平头螺丝(silver Cross-recessed flat head screw)	DK-25	DK-26	DK-27	M6 10*80mm
数量（Quantity）	10	34	24	2	12	1	1



型号(Model)	48-280-H1-01
保护板(Protection Board)	JK-PBxA16S-10P-15P-20P
长宽高（Length width Height）	295mm*416mm*910mm
重量（Weight）	35KG
适用电芯（Applicable Battery Cells）	16 Lifepo4 280AH 306AH 314AH
材质（Material）	铁（Iron）
环境温度（Ambient Temperature）	-30℃-50℃
IP等级（IP Rating）	IP60

组装步骤(Assembly Steps)

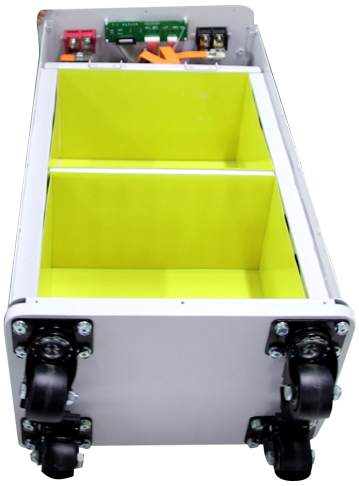


1.拆开上盖和压条

拆开上盖取出压条确认好AB板的位置。

1. Remove the upper cover and layering

Unscrew the upper cover, take out the pressure strip and confirm the positions of the A and B plates.



2.绝缘机箱

将每块环氧板如图贴好注意不要留有缝隙。

2. Insulated chassis

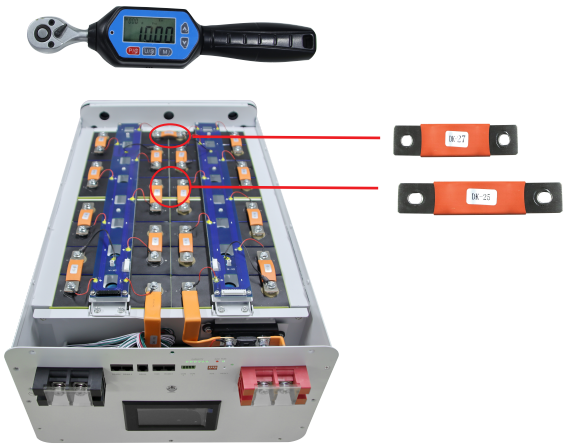
Attach each epoxy board as a drawing and be careful not to leave gaps

3.摆放电芯

将电芯如图摆放，注意电池正负极摆放位置是否正确。

3. Place the battery cells

Arrange the battery cells as shown in the figure.
Pay attention to whether the placement positions of the positive and negative poles of the battery are correct.

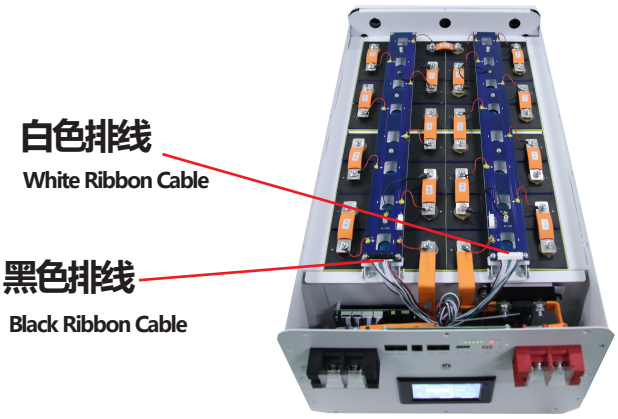


4.安装连接片

将电芯如图摆放，注意电池连接片型号与位置。

4. Install the connecting piece.

Arrange the battery cells as shown in the figure.
Pay attention to the model and position of the battery connecting pieces.

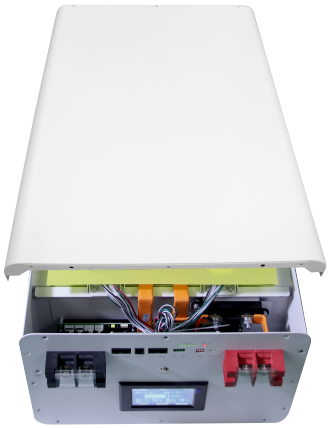


5.BMS通电

插入排线，打开电源开关，注意显示屏是否通电。

5. Power on the BMS.

Insert the ribbon cable and turn on the power switch.
Pay attention to whether the display screen is powered on.



6.安装上盖

固定好环氧板，盖上上盖并锁紧螺丝。

6.Install the upper cover.

Fix the epoxy board firmly,
put on the upper cover and tighten the screws.

APP下载（APP Download）

通过扫描下图所示的二维码可以获取与产品配套的手机APP

Mobile APP matching the product can be obtained by scanning the QR code shown in Figure .
Android Version 7 minimum is required for the Android APP.

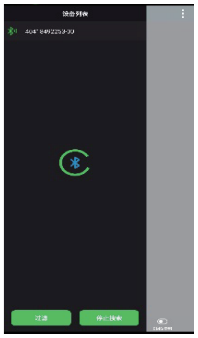
手机APP 链接二维码

Mobile APP link QR code

APP蓝牙应用(APP Bluetooth Application)

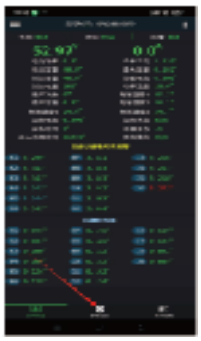
1.链接蓝牙APP （蓝牙配对密码1234）

1. Connect to the Bluetooth APP
(The Bluetooth pairing password is 1234).



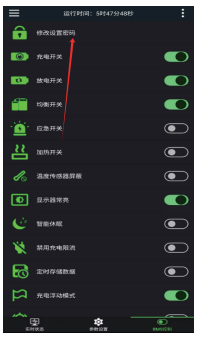
2.设置参数（授权设置密码123456）

2. Set the parameters
(The authorization setting password is 123456).



3.更改密码（旧密码：123456）

3. Change the password (Old password: 123456)



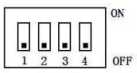
支持逆变器型号（Inverter models supported）

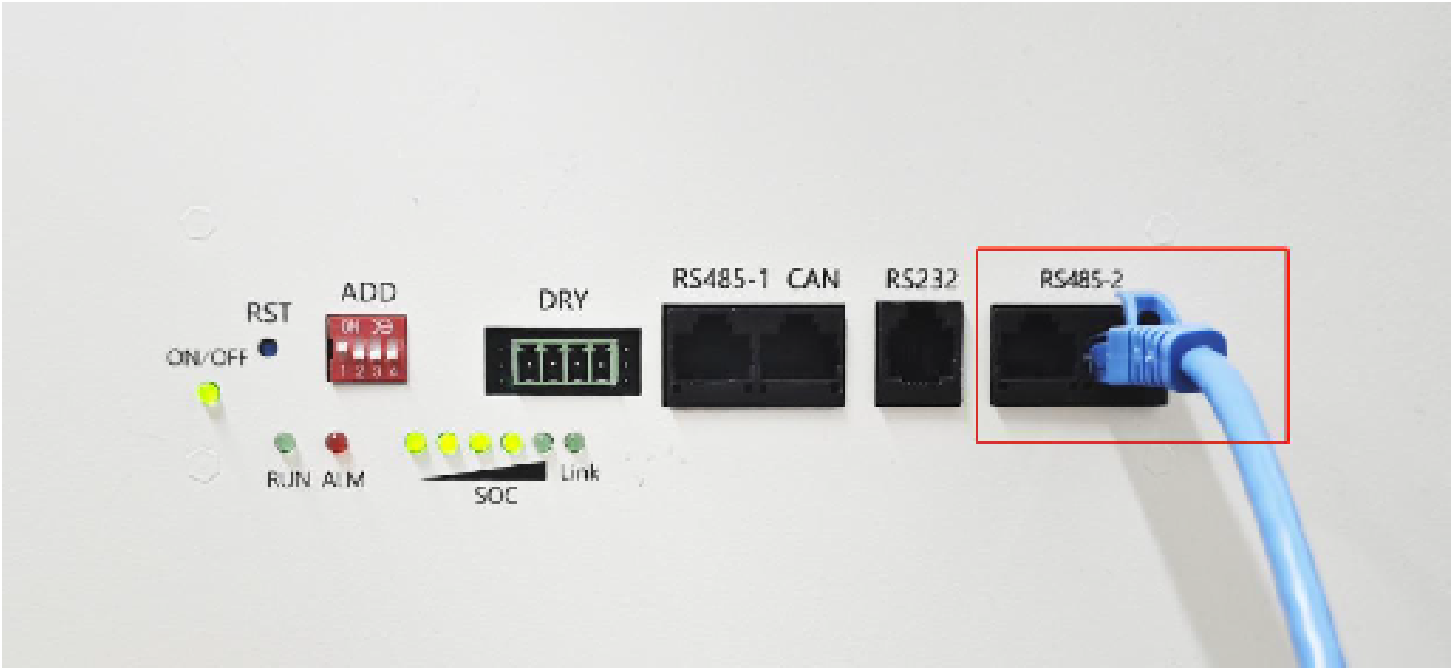
极空BMS-PB系列通讯协议逆变器列表汇总(CAN) Summary of the inverter list for the communication protocol of the Jikong BMS - PB series						
逆变器品牌（Inverter Brands）		协议名称（Protocol Name）	通信接口 (Communication Interface)	真机调试(real device debugging)	匹配型号(match the model)	协议在逆变器代码(Protocol in inverter code)
德业 Deye	Deye 德业	低压储能CAN通信协议 Low-voltage hybrid inverter CAN communication protocol	CANBUS-500K	是/yes	SUN-5K-SG03LP1-EU	1.Battery Setup Menu->Lithium 2.Advanced Function->BMS_Err_Stop
派能 PYLON	PYLONTECH	派能CAN总线协议V1.2 PYLON CANBUS Protocol V1.2	CANBUS-500K	否/no		
		派能低压RS485通信协议 PYLON low voltage RS485 Protocol				
古瑞瓦特 Growatt	Growatt	古瑞瓦特低压CAN总线协议REV_05 Growatt BMS CAN-Bus-protocol -low-voltage_Rev_05	CANBUS-500K	是/yes	SPF 3000TL HVM-48	1.在05中设LI (Set LI in 05.) 2.在36中设置为1，则为CAN通信 (Set it to 1 in 36, then it will be CAN communication.)
		储能机与电池PACK之间RS485通讯协议V2.01 Growatt xxSxxP ESS Protocol V2.01	RS485-9600	是/yes	SPF 3000TL HVM-48	1.在05中设LI（Set LI in 05.) 2.在36中设置为51，则为RS485通信 (Set it to 51 in 36, then it will be RS485 communication.)
维克多 Victron	victron energy	维克多CAN总线协议201707 CAB-BUS_BMS_Protocol_201707	CANBUS-500K	是/yes	Cerbo GX	
英威腾 Invent		英威腾户用储能逆变器低压版BMS通信协议(V1.02) INVT BMS CAN Bus protocol V1.02	CANBUS-500K	是/yes	BD5KTL-RL1	
固德威 GoodWe	固德威 GOODWE	固德威低压CAN总线协议V1.7(ES/EM/S-BP/BP系列) GoodWe LV BMS Protocol (CAN) V1.7(For ES/EM/S-BP/BP Series)	CANBUS-500K	是/yes	GW5000-ES-20	电池类型中选择GoodWe->SECU-A5.4L*1（Select GoodWe -> SECU - A5.4L*1 in the battery type.)
SMA	SMA	SMA电池与逆变器通信协议 FSS-ConnectingBat-TI-en-10 | Version 1.0	CANBUS-500K	否/no		
日月元 Voltronic	Voltronic Power	日月元逆变器与BMS RS485通信协议 Voltronic Power Inverter and BMS 485 communication protocol	RS485-9600	否/no		1.长按SET键进入设置页面；（Press and hold the SET key to enter the settings page.) 2.将05项设置成LIB；(Set item 05 to LIB.)
硕日 SRNE	srne	硕日Modbus通信协议 PACE BMS Modbus Protocol for RS485	RS485-9600	是/yes	HF2430S60-100	1.将39设置成BMS(Set item 39 to BMS.) 2.将32设置成BMS(Set item 32 to BMS.) 3.将33设置成WOW(Set item 33 to WOW.)
美世乐 MUST	MUST美世乐					
首航	SOFAR 首航新能源					

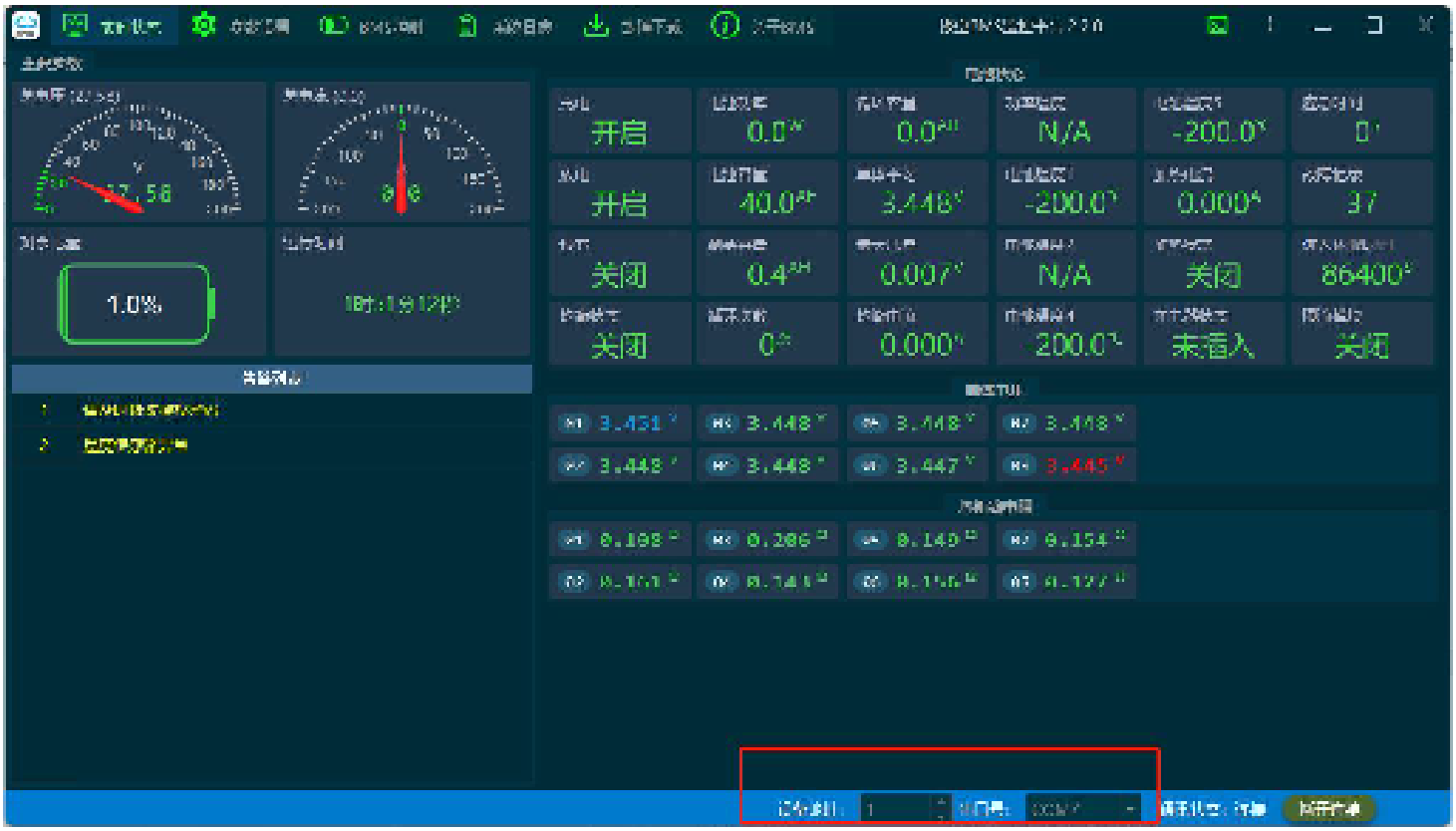
电池并机配置（Battery parallel configuration）

拨码开关设置
(Dip switch Settings)

地址(address)	拨码开关位置(Dip switch position)			
	1	2	3	4
0	OFF	OFF	OFF	OFF
1	ON	OFF	OFF	OFF
2	OFF	ON	OFF	OFF
3	ON	ON	OFF	OFF
4	OFF	OFF	ON	OFF
5	ON	OFF	ON	OFF
6	OFF	ON	ON	OFF
7	ON	ON	ON	OFF
8	OFF	OFF	OFF	ON
9	ON	OFF	OFF	ON
10	OFF	ON	OFF	ON
11	ON	ON	OFF	ON
12	OFF	OFF	ON	ON
13	ON	OFF	ON	ON
14	OFF	ON	ON	ON
15	ON	ON	ON	ON







上位机设置(Upper computer settings)
(1) 实时状态页面，可查看电池电压、充电电流、异常告警、电池状态、均衡线组等。
(1) Real time status page, which can view battery voltage, charging current, abnormal alarm, battery status, balance line group, etc.

(2) 参数设置页面，默认状态下无法修改任何参数，需要通过“授权设置”进行更改。保护板出厂默认密码：“123456”。
(2) The parameter settings page cannot modify any parameters by default and needs to be changed through "Authorization Settings". The default password for the protective board at the factory is "123456".