SEPLOS MASON-280-FNA

INSTALLATION GUIDE

DONGGUAN SEPLOS TECHNOLOGY CO., LTD

一、Cabinet installation accessories：

1 . Cabinet install machine feet 4 PCS,as “ Figure1” use M6 * 14Phillips hex screw with spring washer lock

(Locking torque:10Nm) ;

2.Cabinet install handles on both sides4PCS,as “ Figure 1” use M4* 10 Hex socket countersunk screw lock

(Locking torque :3Nm) ;

3.Cabinet install buckle 3 set , as “ Figure1、2” use M5* 10 Phillips flat head screw lock (locking torque： 4Nm)

4.Install the fan in the cabinet. First fix the fan on the mounting plate, and then tighten it with M4*10 cross flat head flat tail screws as shown in "Figure 2".（locking torque：3Nm）

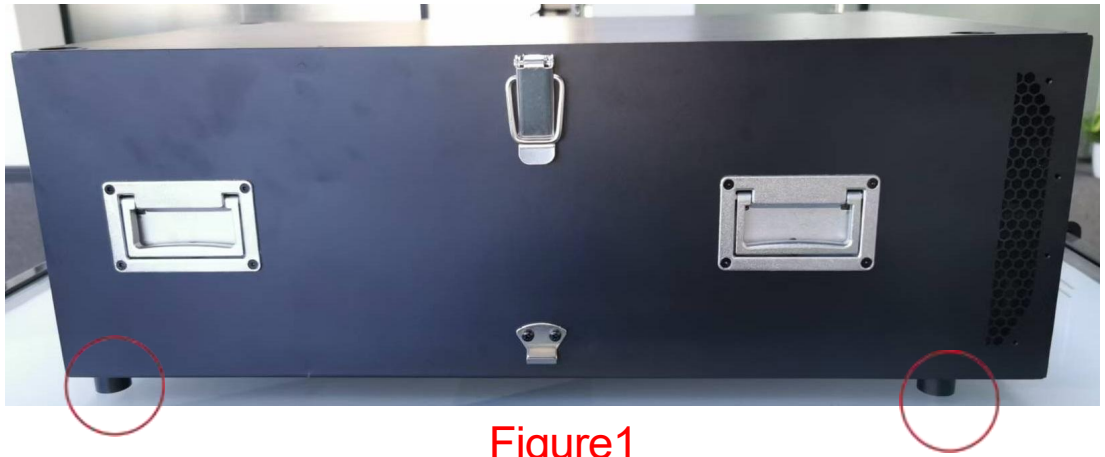


Figure1



Figure2

Material：
BOX*1PCS,Machine feet*4PCS
Hidden hundle*4PCS,Fan fixing plate 1*PCS,Fan 1*PCS，
Buckle*3PCS,M6*14 screw*4PCS
M4*10 Hex socket countersunk screw*16PCS
M5*10 Phillips flat head screw*12PCS

Tool:Electric batch、 10mm socket、 PH2 cross bits

二、Cabinet installation accessories：

1.Cabinet install epoxy board,as “ Figure 1” first tear off the epoxy board adhesive film centrifugal paper.Paste them in the corresponding positions in order 1, 2, and 3.

Material：

Epoxy board A （603*175*0.5mm） *2PCS

Epoxy board B （603*200*0.5mm） *4PCS

Epoxy board C （175*200*0.5mm） *2PCS

Tool：Scissors



Figure1

三、Cell stacking：

1 .As “ Figure 1” Check the battery core grouping as required, and paste EVA foam on the corresponding surface of the battery core to separate the batteries,overall location as “Figure2”.

2 . As “ Figure2 、 3” stack the cells in series into the cabinet, and attach the epoxy board C to the end plate cells.

3. Install end plate,as “ Figure 4” use 7* M6*25Phillips hex screw with spring washer lock （ Locking torque： 10Nm）

Material：
Cell*16PCS,Battery core foam*22PCS，
Epoxy boardC*2PCS ,End plate*1PCS
M6*25Phillips hex screw with spring washer *7PCS

Tool：
Internal resistance detector、
Electric batch、 10mm socket、
PH2Cross bits

PS：There are tolerances in battery cells from different manufacturers, if the cells are still loose after applying the foam according to the instructions, add more foam filling.

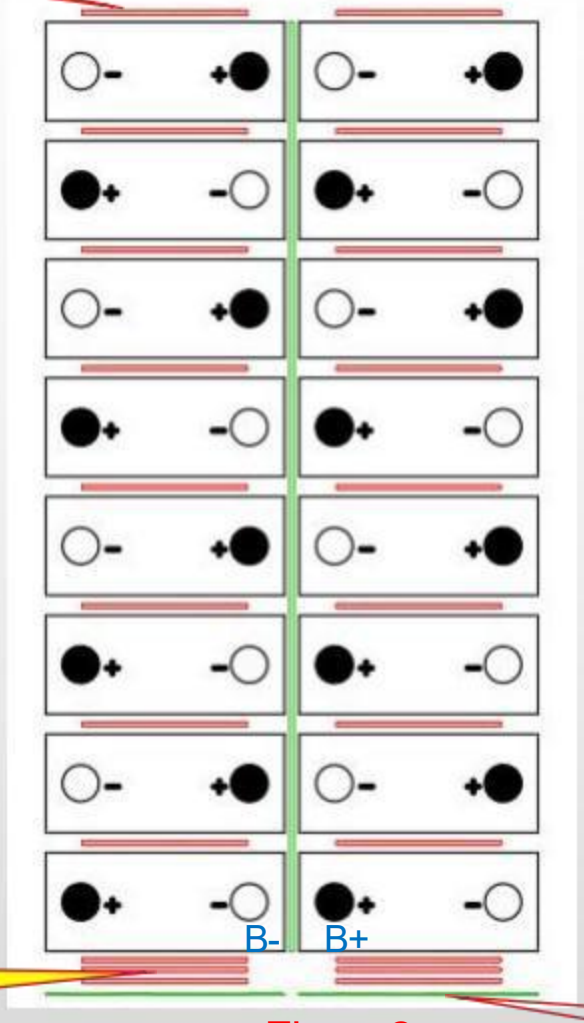
Figure1



Foam

Matching requirements,voltage difference is： ≤0.010V， internal resistance difference is： ≤0.15mΩ;

Foam



The foam here can be increased or decreased according to actual conditions.

Figure2

Epoxy boardC

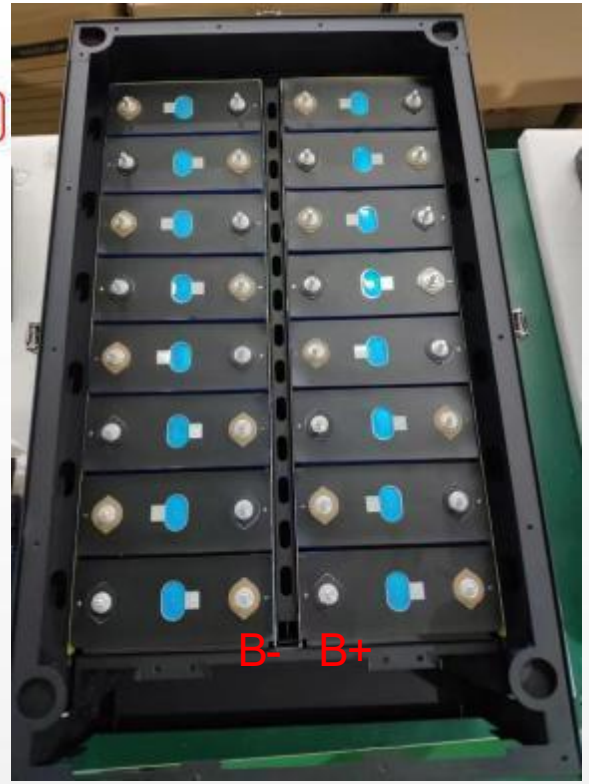


Figure3



Figure4

四、Install battens and aluminum rows：

1.Install aluminum row,as “Figure 1” Install series aluminum bars on the poles.
2.Pressed foam,as “Figure 2” Paste EVA foam on the batten, aligning the holes.
3.Install the sampling plate on the batten,as “Figure 3”use 5 pcs M4*8Phillips hex screw with spring washer lock.
(Locking torque：3Nm)

Material：
Foam*2PCS,Layering*2PCS,
M4*8Phillips hex screw with spring washer *10PCS ,
SF-N1Aluminum row*15PCS,
Sampling plate*2PCS

Tool： Electric batch、 PH2 Cross bits

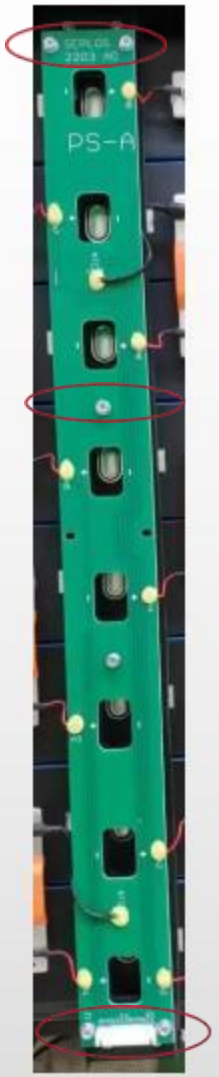
Figure1



Figure2



Figure3



五、Install sampling board and balance board sampling line：

1.Install the voltage strip into the cabinet,as“Figure 1” need to distinguish A/B board,use M5*8Phillips hex screw with spring washer lock.

(The locking torque is：4Nm)

2.Install the balance board sampling cable lugs,as “Figure 2” Insert the sampling wire lug into the pole at the corresponding position,then use M6 flange nut locking aluminum row(The locking torque is：6Nm)Check again with a torque wrench.

3.Balance board sampling lineas “Figure 2” Wrap tape as shown and secure with tie tape.

Material：

M5*8 Phillips hex screw with spring washer *8PCS， M6 flange nut*30PCS

Tool:

Electric batch、10mm sleeve、

PH2 Cross bits、Torque wrench



Figure1

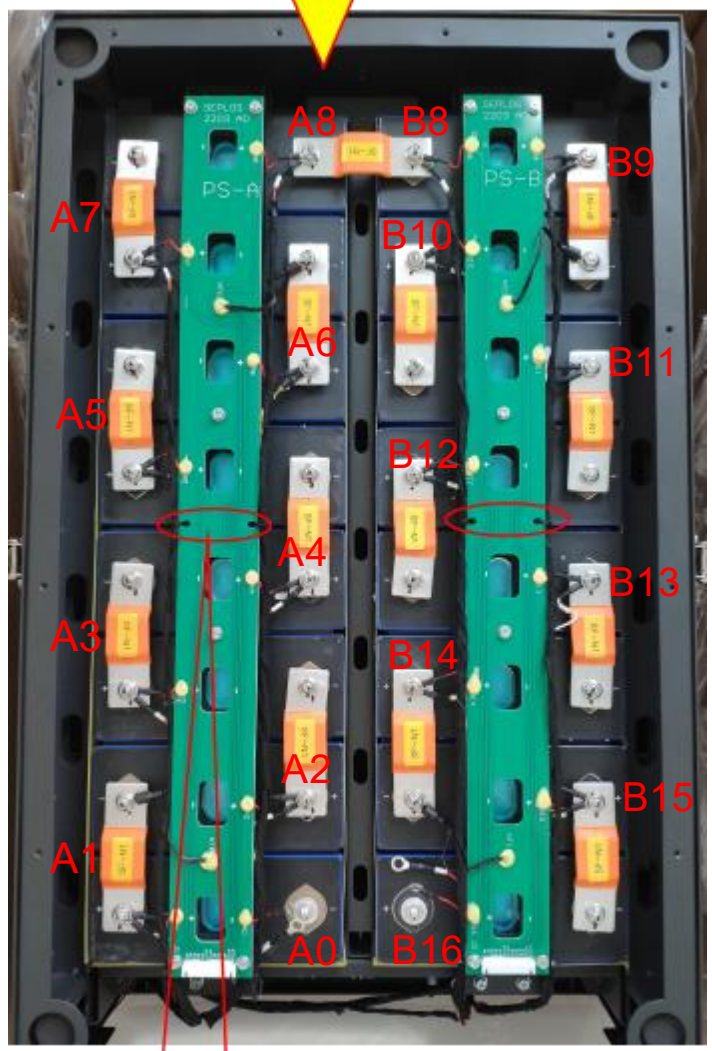


Figure2

六、Install the active balance board into the cabinet

1.As“Figure 1” balance board mounted to sheet metal bracket,use M3*8 screw lock(Locking torque is：1Nm)

2.As“Figure 1” Insert the balance board sampling line into the corresponding port；

3.As “Figure1” Insert the power cord of the balancing board into the corresponding port；

Material:

balance board*1PCS， M3*8 Phillips round head screw*4PCS， Balance board power cord*1PCS

Tool:Electric batch,PH1 Cross bits

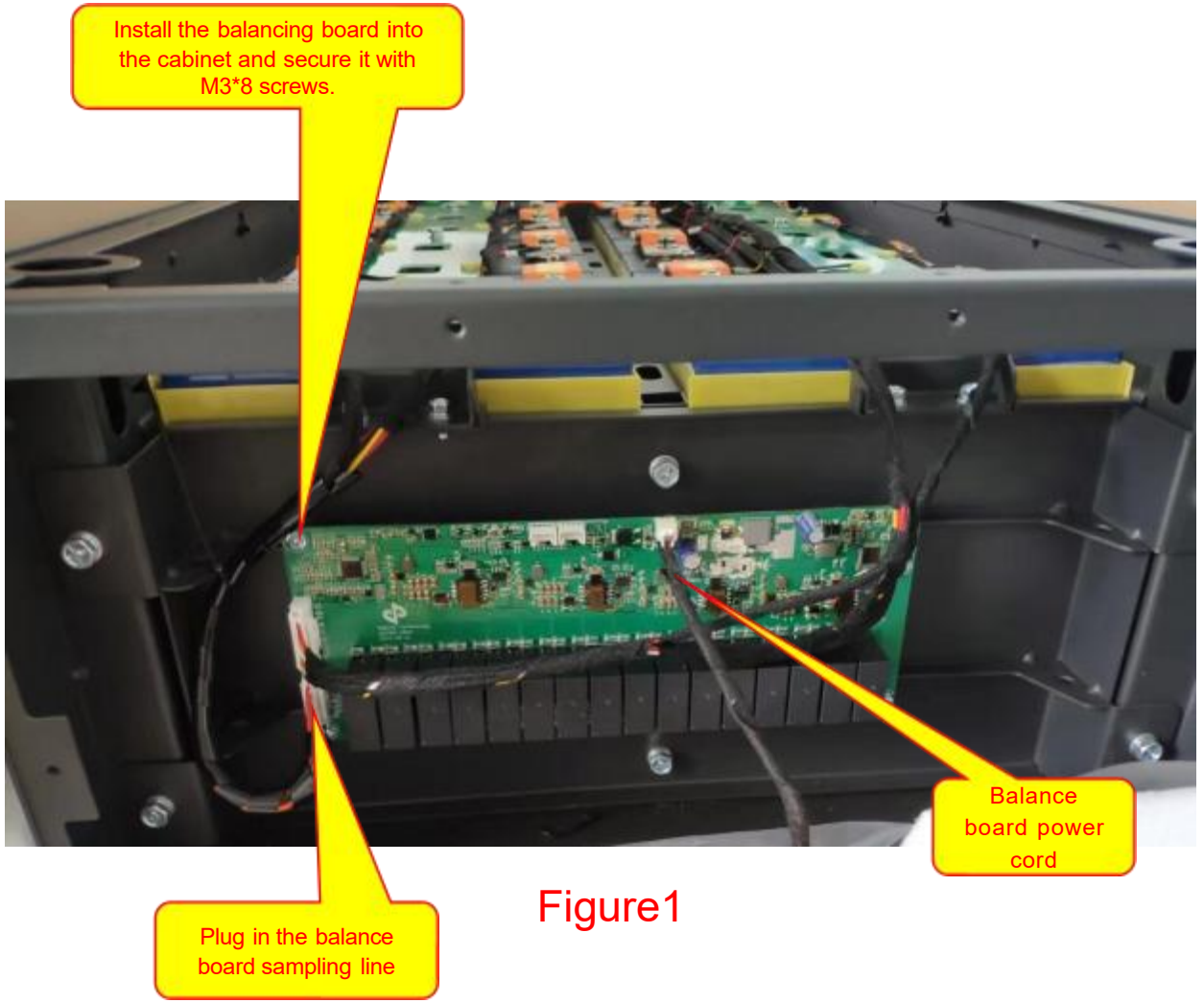


Figure1

七、Install Dust net

1.As shown in "Figure 1", fix the dust screen on both sides of the cabinet and tighten it with M4 nuts.（Locking torque:3Nm）

Material：

Dust net*2PCS，

Dust screen fixing plate*2PCS，

M4 nuts*4PCS

Tool：Electric batch，wrench

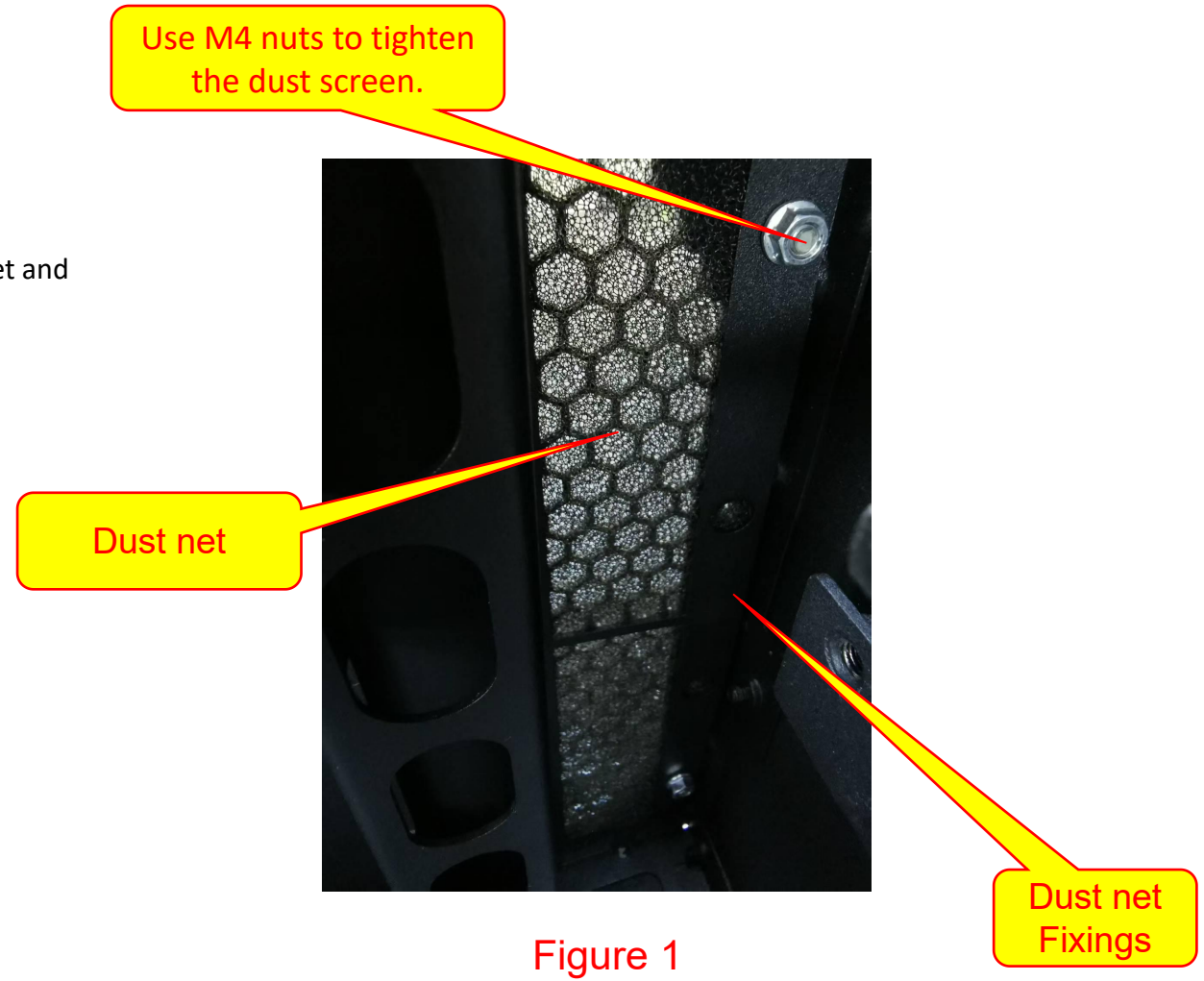


Figure 1

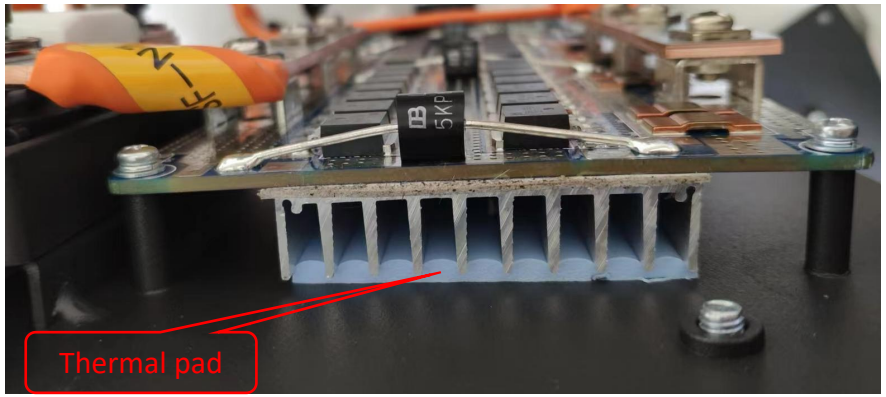
八、BMS, front panel mounting accessories

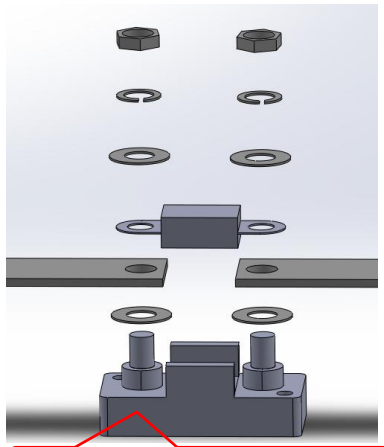
1.As shown in Figure 1, place a thermal pad at the bottom of the BMS, install it on the sheet metal bracket, and tighten it with M3*8 screws.（Locking torque：1Nm）
2.As shown in "Figure 2, 3", the front panel is equipped with a connector socket*4.use M4*10Hex socket flat head screw lock（Locking torque：3Nm）
3.Install the screen and tighten it with M3*8 screws（Locking torque：1Nm）
4.Install the fuse holder and tighten it with M6*14 screws (Locking torque: 8Nm)
5. Install the fuse and use the screw lock that comes with the fuse holder (Locking torque: 15Nm）
6.Install copper bars（Locking torque：8Nm)Install small B+ line（Locking torque：1Nm）

Material：
Front panel*1PCS,BMS*1PCS,
Copper row：SF-N2*1PCS ,SF-N3*1PCS,SF-N5*1PCS,SF-N7*1PCS,SF-6*2PCS，
Black sampling line *1PCS,White sampling line*1PCS,display line*1PCS，
connector socket*4PCS， M4*10Hex socket flat head screw*16PCS，
M3*8 Phillips round head screw*10PCS,Fuse holder*1PCS,M6*14 Phillips hex screw with spring washer*6PCS,Fuse*1PCS,small B+ line*1PCS

Tool：
Electric batch,PH2 cross bit,PH1 cross bit,13mm socket,10mm socket

Figure 1





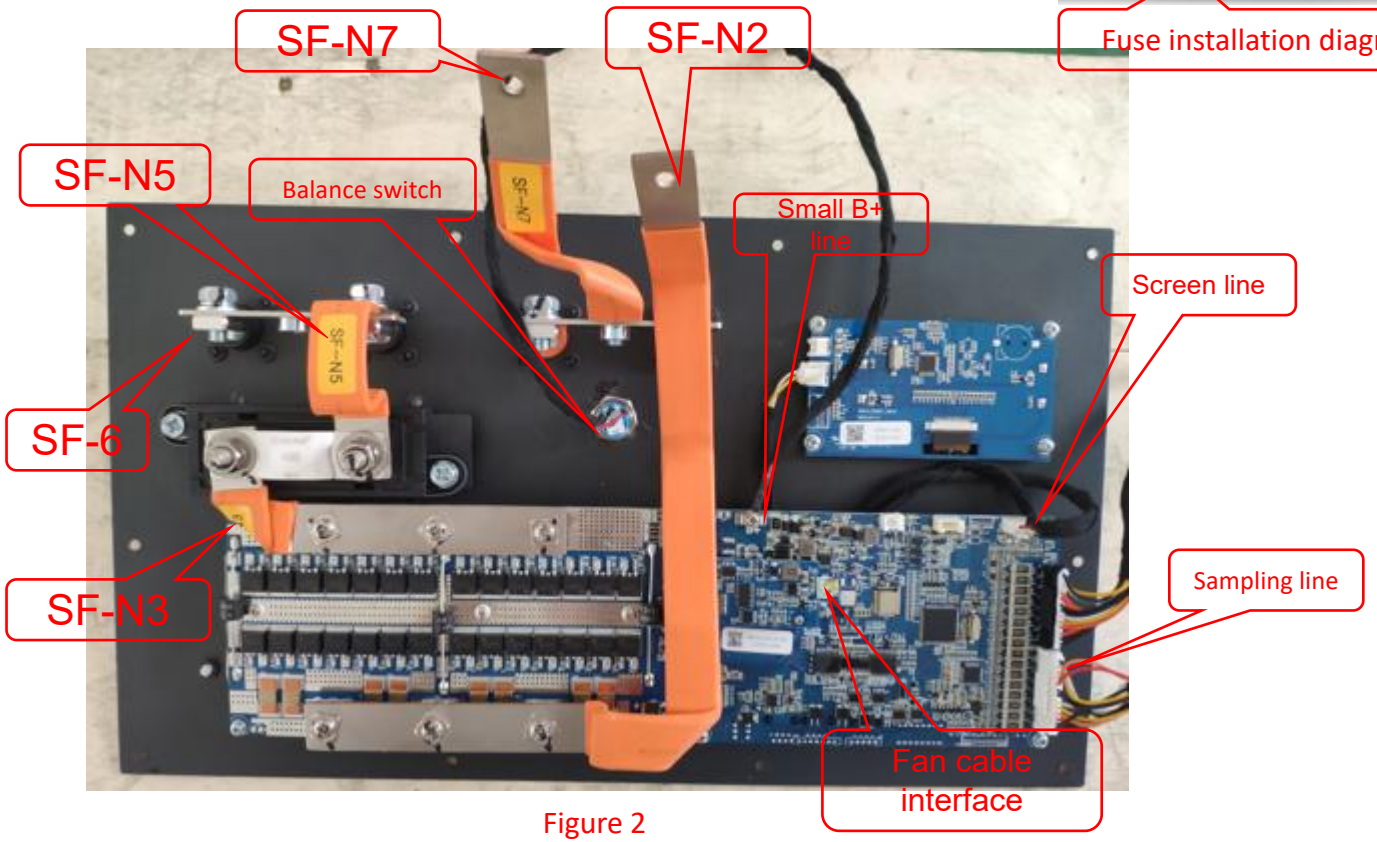


Figure 2

九、BMS,Front panel mounting accessories (2)

1.As “ Figure1” Install the keycap and check whether the feel is OK;Put on the screen sticker.

2.Lock the ground screw ,use M5*8 screw.

Material：
keycaps*4 PCS

M5 *8Phillips hex screw with spring washer*1PCS

Tool:

Electric batch、 PH2cross bits

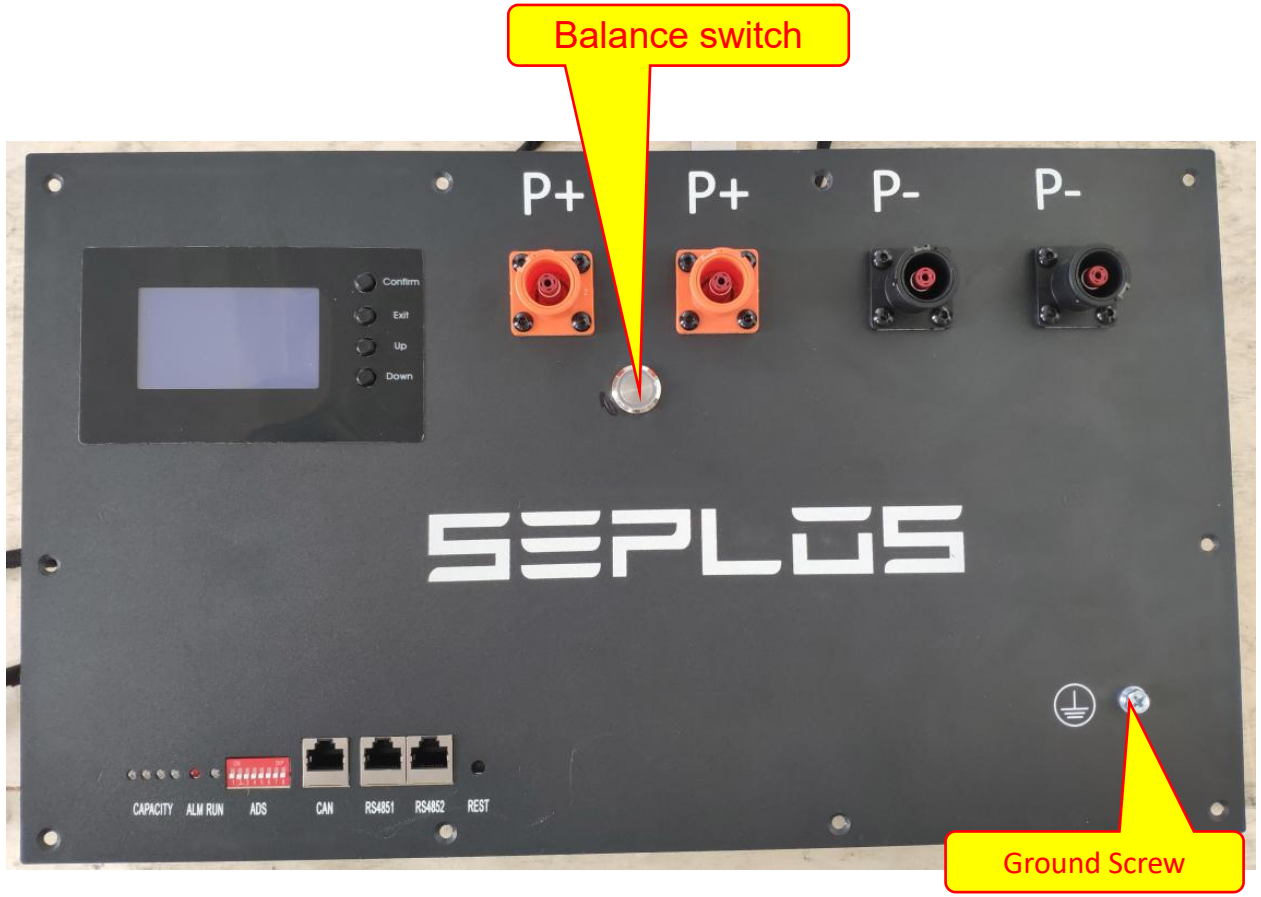


Figure 1

十、Install the front panel into the cabinet

1.As“ Figure 1” ,Insert the balance board switch plug ;Panel into the cabinet before installation ,use M4*10 Hex socket countersunk screw lock .(Locking torque is：3Nm)

2.As “ Figure 2” Install the B-copper bar, sampling wire lugs, and negative power cord of the balance board;use M6 flange nut lock (Locking torque is：6Nm)

3.Insert the blackhead sampling line as shown in "Figure 2"；

4.As “Figure 2” install B+ Copper row ,small B+line ,Sampling wire lug,Balance board positive power cord;use M6 flange nut lock (Locking torque is：6Nm)

5.Insert the white head sampling line as shown in "Figure 2"

Material：
M4*10 Hex socket countersunk screw*10PCS
M6 flange nut *2PCS

Tool：Electric batch、10mm sleeve、Hexagonal H2.5 bit



Figure1

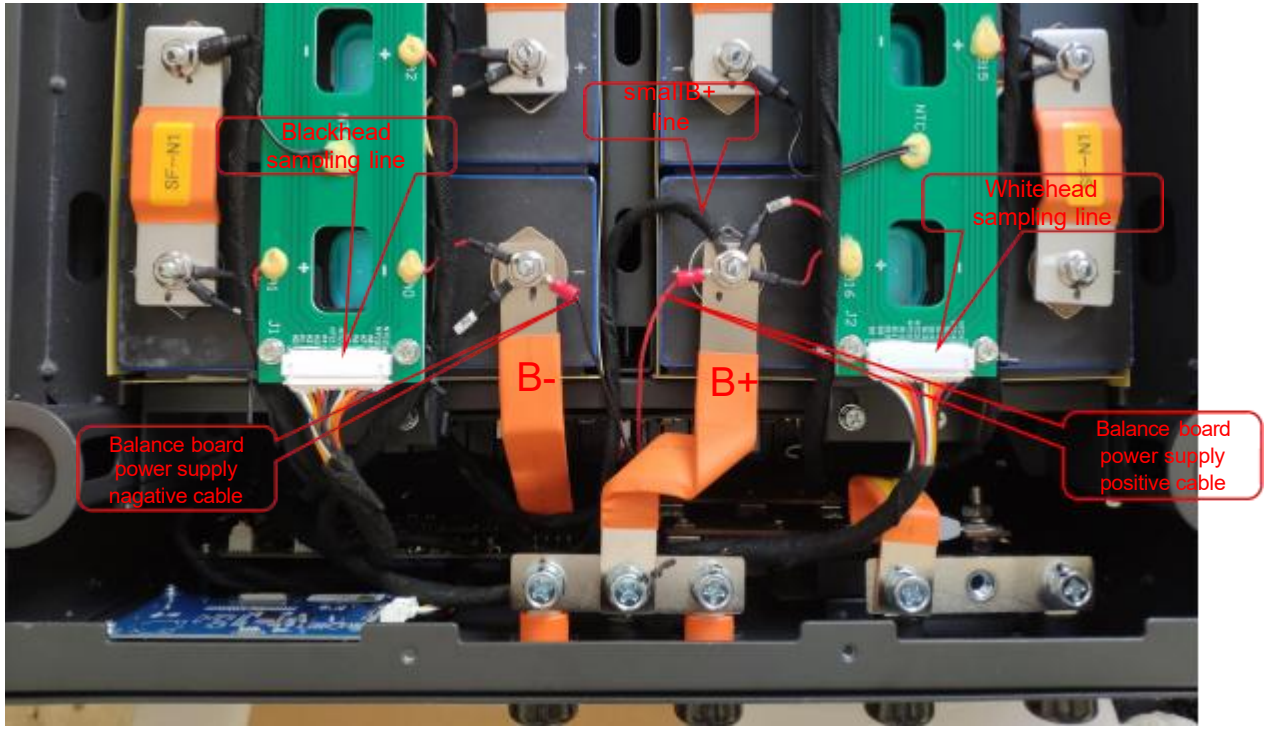


Figure2

十一、Install the cabinet cover：

1.PC film on cabinet cover,as“ Figure 1” Paste the PC film on the inside of the case cover,and cut off the 4 holes of the machine feet with a blade.

2.As “ Figure 2、3” ,install the cabinet cover,use M4* 10 Hex socket countersunk screw lock （Locking torque：3Nm）

3.After the installation is completed, BMS needs to perform capacity learning specific steps.：

Fully charge the battery first (recommended current is 100A)
Put it into battery system protection(recommended current is 100A)
Charge to 50% capacity (recommended current 100A)
Complete capacity learning

Material：
Cabinet cover* 1PCS， M4* 10 Hex socket countersunk screw* 16PCS， PC film* 1PCS

Tool:
Electric batch、 Hexagonal H2.5 bit、 utility knife



Figure1

Figure2





Figure3