

# PKX 10K System Assembly Process

PKX 10K System whole outline show as below Fig1, after assembly all the parts on cabinet. Please follow the assembly SOP to assembly all part on cabinet. And, suggest install the whole system from the bottom of rack at first.

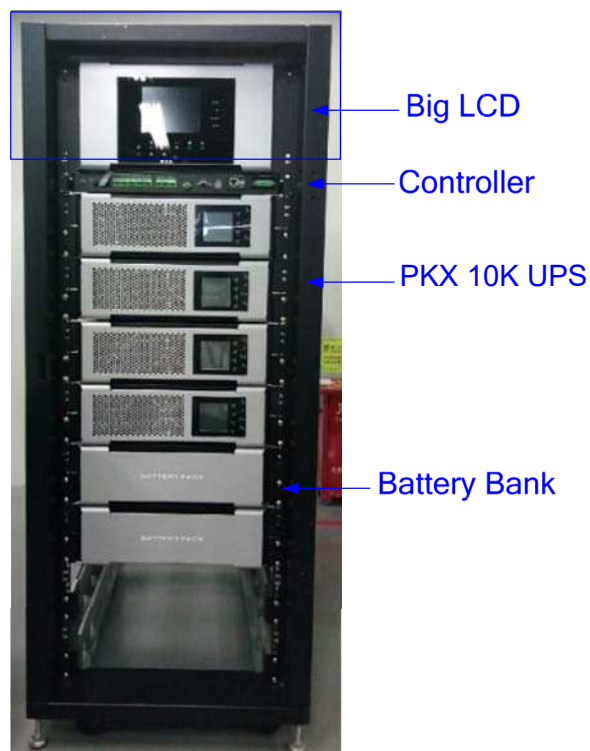


Fig1

*\*Shown above Big LCD and Controller are optional accessories.*

## **Step1- 3U height Slide Rail assembly on rack**

Get the nuts and screw, slide rail from UPS or Battery Pack carton (Fig2)

Assembly the nut on cabinet, from the bottom side of rack (Fig3), then assembly the slide rail from bottom of cabinet, based on 3U height, to assembly the slide rail (Fig4)

Assembly T metal part of hot swap on slide rail, ensure the slide rail can support hot-swap (Fig5).

All side rails should keep in 3U distance on rack (Fig6)



Fig2

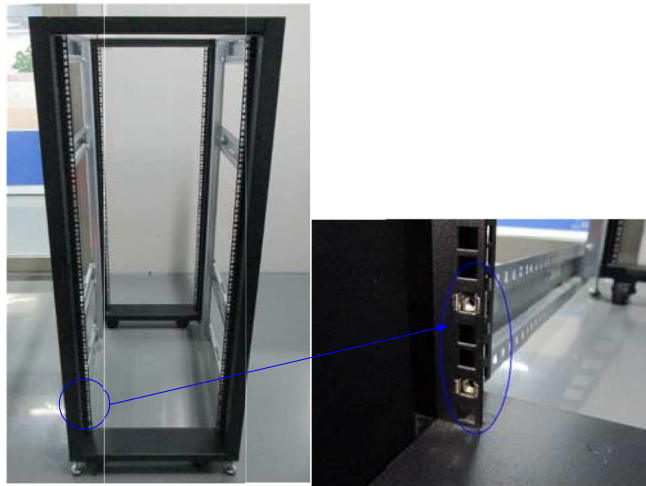


Fig3



Fig4

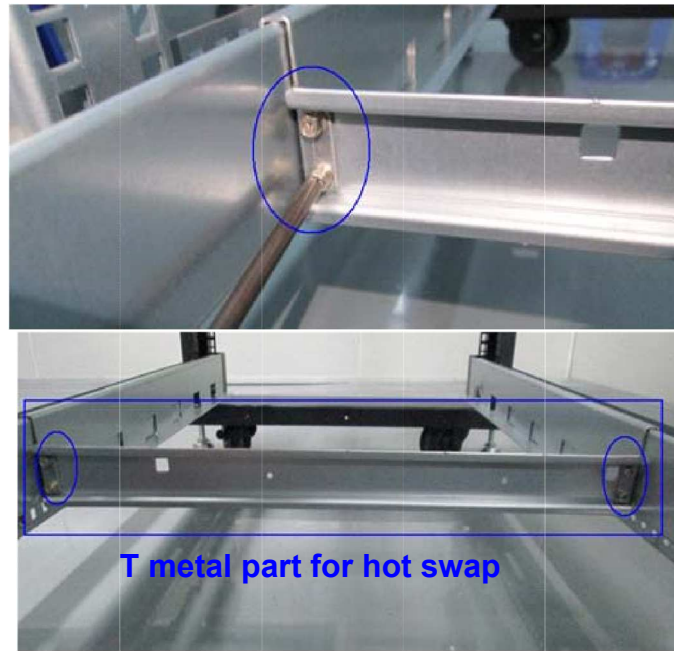


Fig5



Fig6

**Step2- Assembly UPS and Battery back over on rails**

Get 1PC UPS (Fig7) or Battery Pack (Fig8) from carton, check whether all the outline is well, if not issue, install it on rack.

Remove the Back cover from UPS and Battery Back (Fig9)

**ATTENTION!**

**If You install Battery Pack with batteries inside never touch output terminals.**

**If You install Battery Pack with batteries inside - remove back terminals connection before connect any cables or bus bars.**

Cut the Knock-out of metal on back cover, ready for parallel kit assembly (Fig10) , then assembly this back cover on T type parallel kit.



Fig7



Fig8



Fig9



Fig10



Fig 11

### Step3- Assembly Copper busbar and PRS cable for parallel kit (UPS+BP)

Get the copper busbar and PRS cable from the UPS and Battery pack accessory kit (Fig12).

Follow the DC back (Fig13) and AC back (Fig14) PCBA connection definition for the PRS connection.

Detail cable and busbar connection show in Fig15-Fig 16, **pay attention, have 1 terminal position not need connect the busbar- 3-1BPS terminal is just for 3-1 model, keep not connect busbar.**

**Please reference Fig15, Do not lock these M5 screws too tight; make sure copper bars are loose. After install the parallel kit on slide rail, do the final torque calibration to fix the M5 screws.**

**After build all busbar and on parallel kit, the overview please reference Fig15-18. Please first connect the parallel kit with busbar, then to fix the total kit (Fig18) on slide rail by 2PCS screws (Fig19). Then connect the communication cable on RJ45 RJ11 port (Fig20).**



UPS Parallel Kit

Battery Parallel Kit: \*Optional Bus Bar

Please prepare cable connectors if needed

Fig12

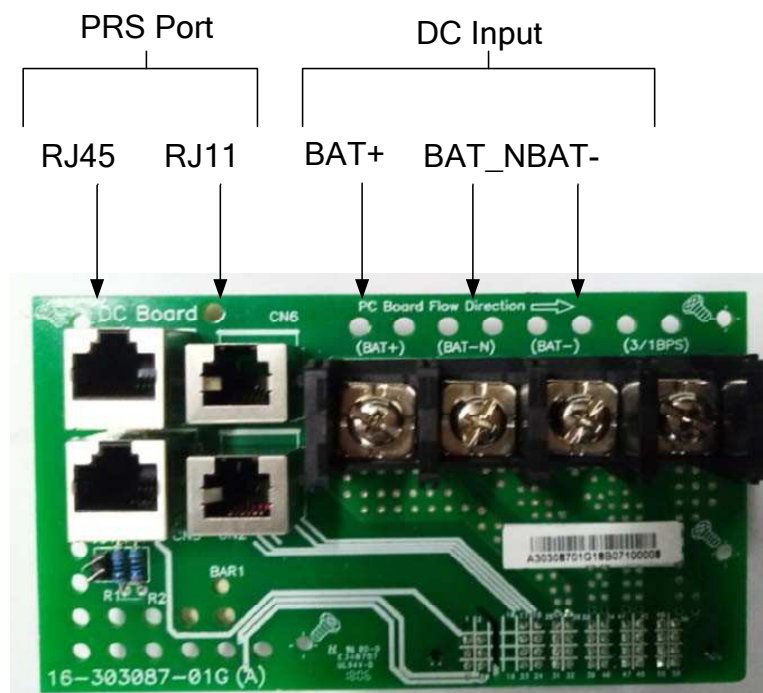


Fig13

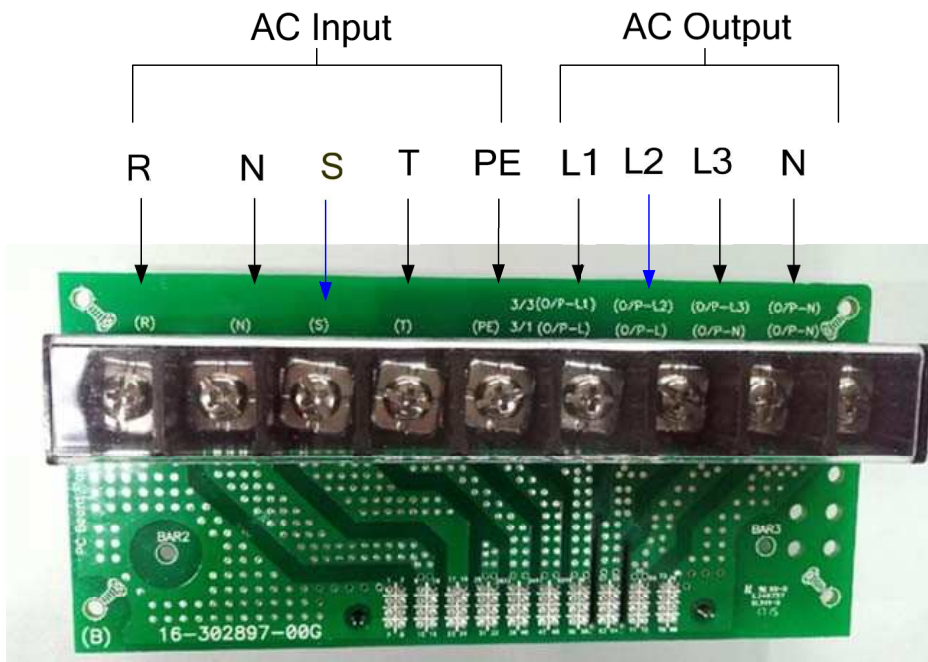


Fig14



Fig15



Show as Fig15, remove the DC and AC back PCBA from back cover, then connect all the back PCBA with copper busbar at first, this will be easy to assembly.



Fig 18

As Fig18, enclosure the back cover with the connected AC DC back PCBA.



Fig 19

As Fig19, connect the back cover with slide rail stand bone with 2 screw

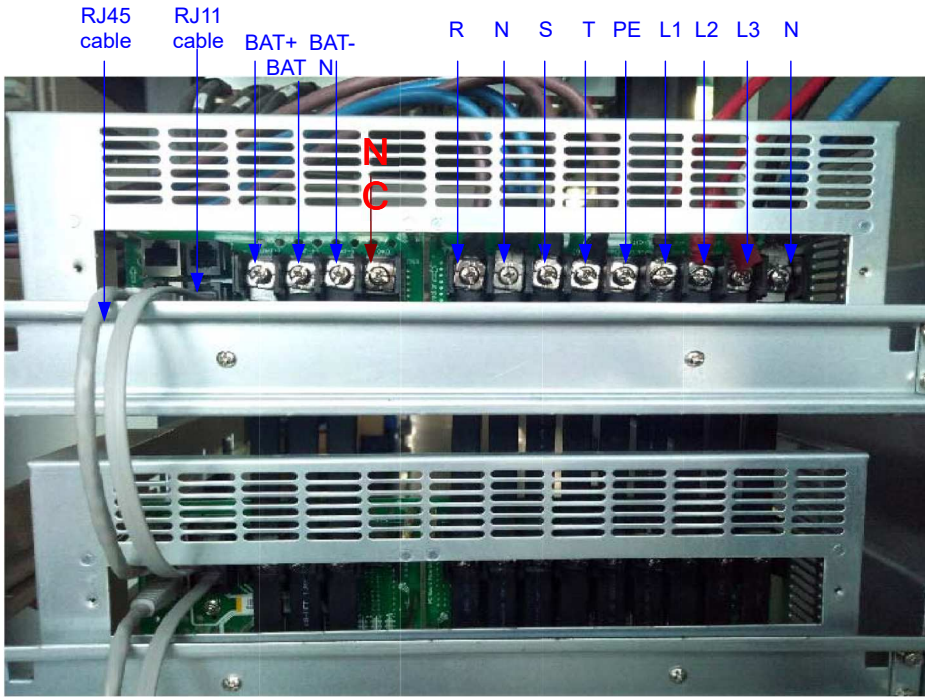


Fig 20

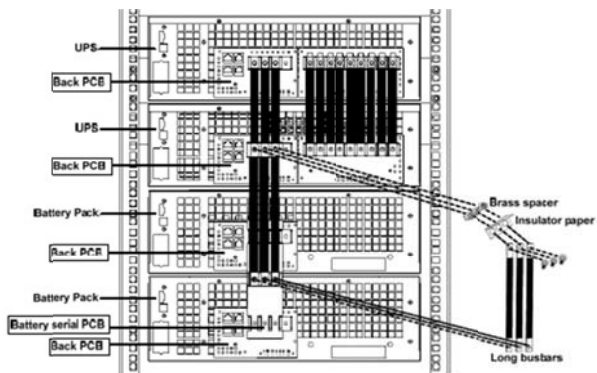


Fig 21



Fig22

#### Step4- Install the UPS and Battery Pack on rack

Assembly the left and right mounting ear on UPS (Fig18)

Insert UPS on the slide rail; check the hot swap function (Fig19)

The whole over-view as Fig20 after installs all the UPS and Battery pack.

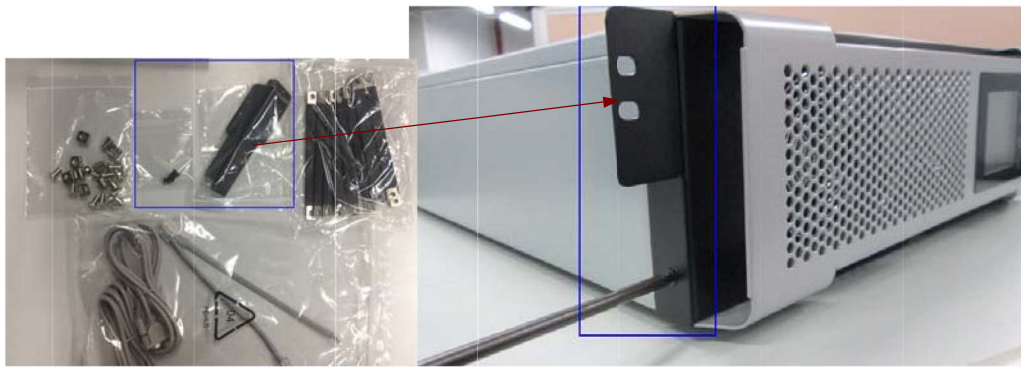


Fig23



Fig24



Fig25

### Step5- Controller and Big 5.7inch LCD installation (optional)

Get the controller from carton, and first install the controller rail (Fig21)

Build the controller rail and back cover together, then install on the top side of UPS, keep 1U height (Fig22)

The Controller AC/DC input cable and RJ45cable need connect with the top one UPS back board , please check the BAT+/R/S/T/N/PE label on AC/DC input cable and connect then with correct terminal (Fig23)

Build the big 5.7inch LCD on the top side of controller and connect the LCD cable with controller (Fig24)

Final system outlines show in Fig25.

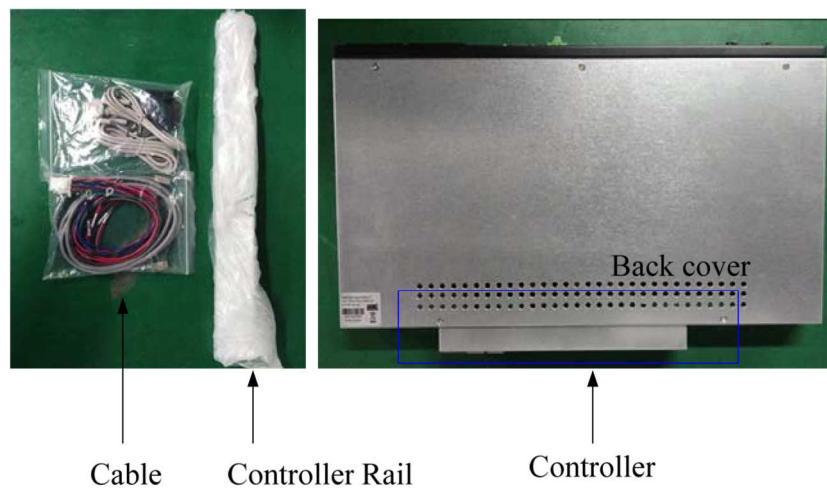


Fig26



Fig27

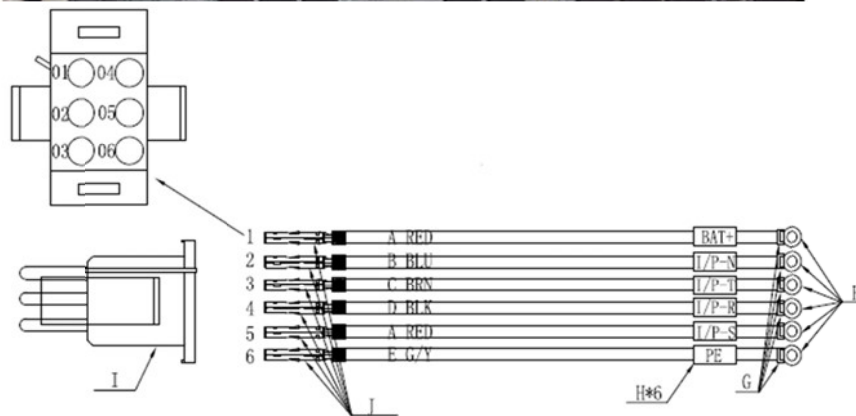
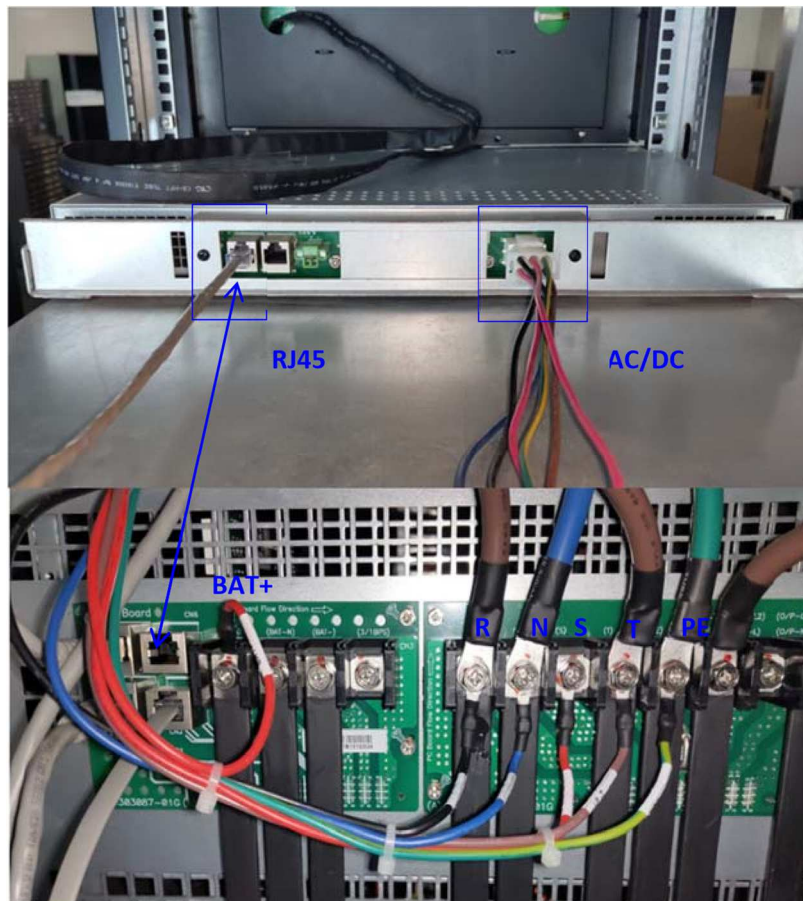


Fig28

As Fig28, please connect the controller cable with the UPS AC and DC input.



Fig29



Fig30