



TC2421H

100 Ah DIY Battery cabinet

UPBPTC2421HX-AZ01B

Installation and battery connection for 100Ah DIY EBM



Thank you for purchasing our products!

Please read this manual before using the product.



Focusing on quality at competitive prices, here at nJoy, we are creating innovative and reliable power protection solutions for every customer in casual, business and industrial environments.

This EBM together with the UPS will protect your electronic equipment from physical damage and will provide emergency battery backup power to prevent data loss in the event of power problems.

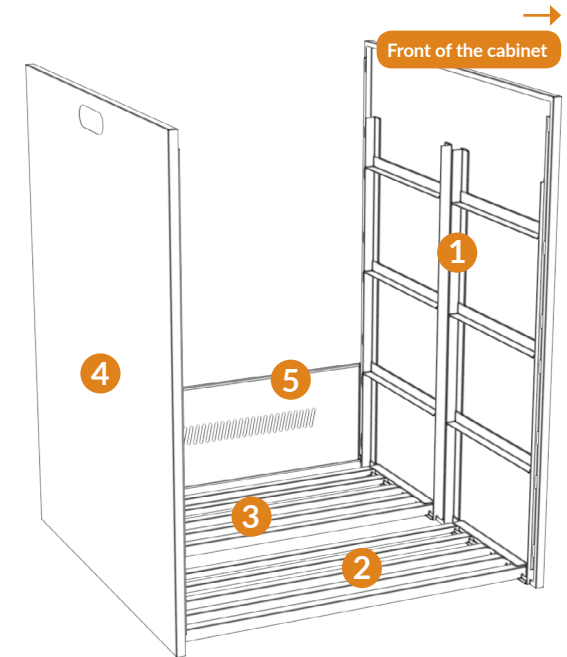
nJoy UPS models that are compatible with this EBM model:

Garun Series 30KL / 40KL / 60KL / 80KL

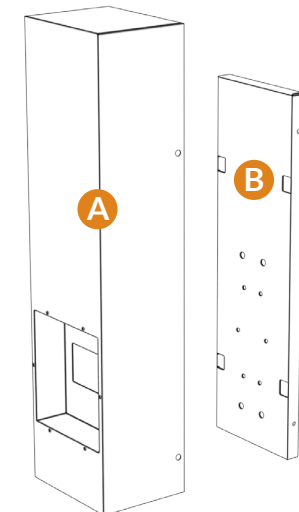
Ranger Series 60KT / 120KT / 180KT

1 Installation and assembly of the cabinet

Step 1
Assemble the first parts of the cabinet in the order shown.

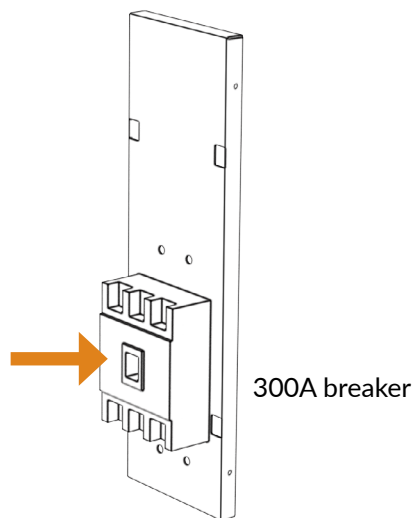


Step 2
The breaker cover has two parts. Begin with the lower part (shown in picture as B).



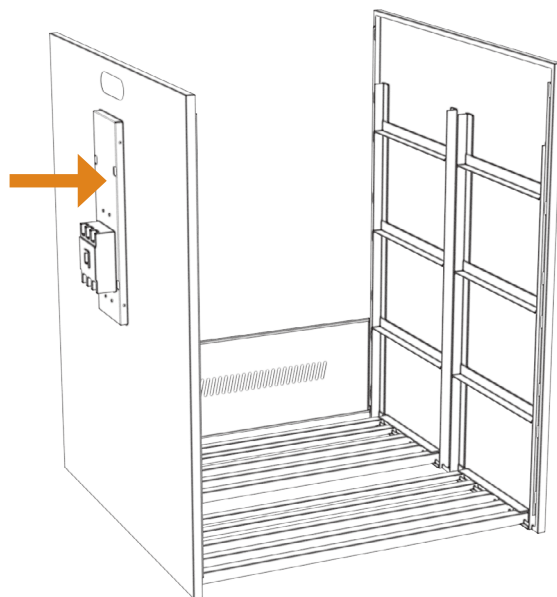
Step 3

Fix the breaker on the corresponding part.



Step 4

Assemble the component on the back of the cabinet.



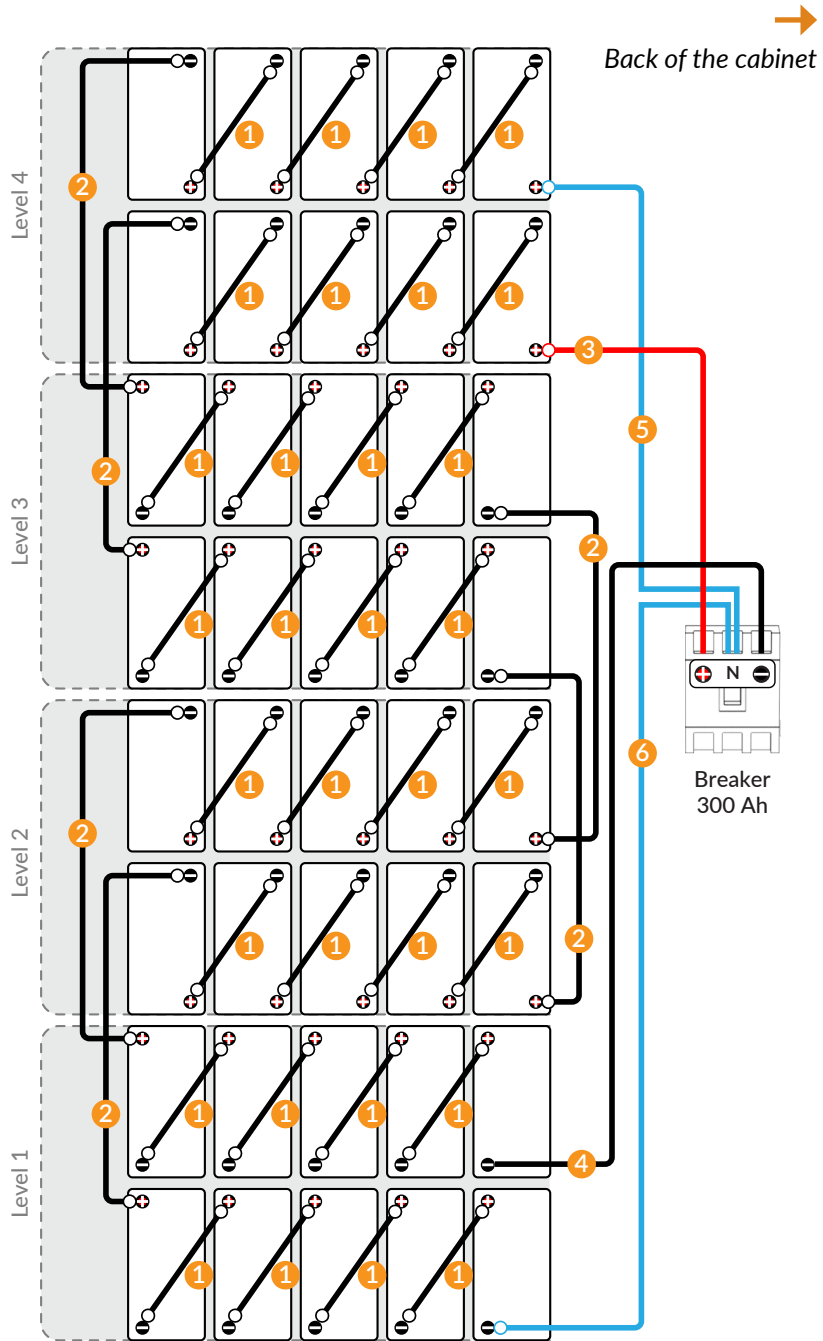
For complete information on the cables used for this battery cabinet, please refer to the table below:

No.	Name	Description	Length (cm)	Quantity (pcs)	Observations
1	1	Battery to Battery AWG 0000 (black)	35	32	Ring 8.4mm to Ring 8.4mm
2	2	Battery to Battery AWG 0000 (black)	50	6	Ring 8.4mm to Ring 8.4mm
3	BAT+	Battery to Breaker positive (+) Pole AWG 0000 (black)	80	1	Ring 8.4mm to Ring 10.4mm
4	BAT-	Battery to Breaker negative (-) Pole AWG 0000 (black)	180	1	Ring 8.4mm to Ring 10.4mm
5	N1	Battery to Breaker neutral N1 Pole AWG 0000 (black)	60	1	Ring 8.4mm to Ring 10.4mm
6	N2	Battery to Breaker neutral N2 Pole AWG 0000 (black)	180	1	Ring 8.4mm to Ring 10.4mm
7		Cabinet to cabinet 3x AWG 1/0	150	1	Ring 10.4mm to Ring 10.4mm

NOTE!

The cable numbering corresponds to the ones on the connection diagram and on the illustrations.

Top

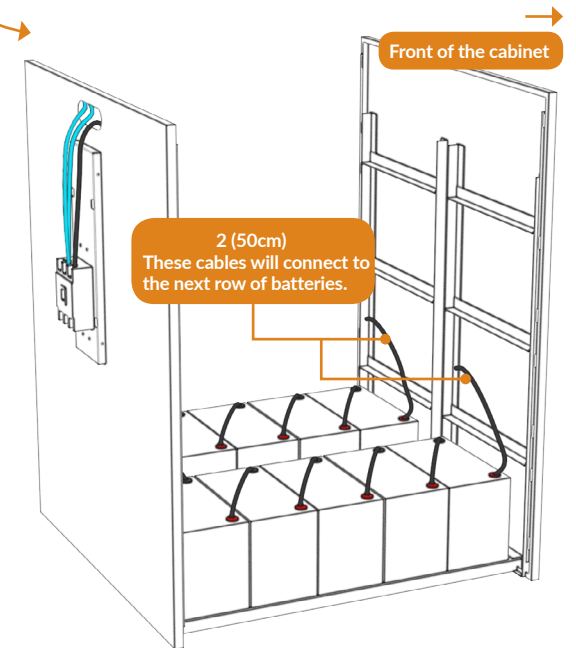
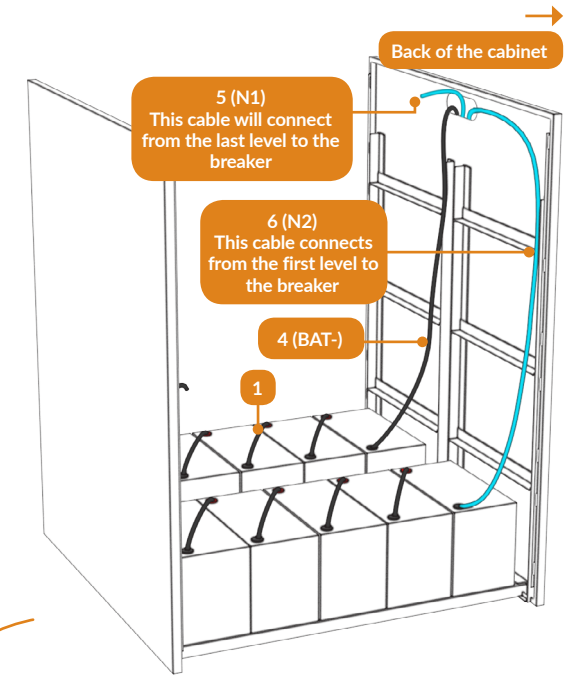


Bottom

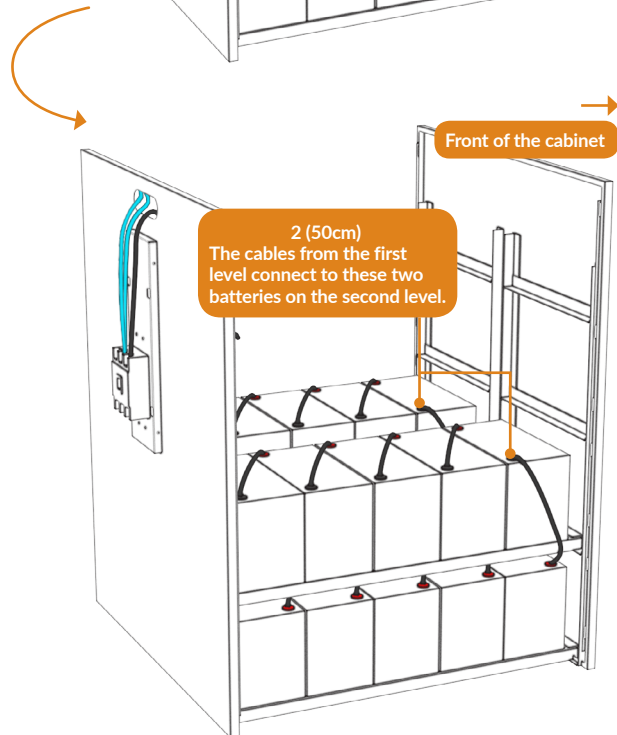
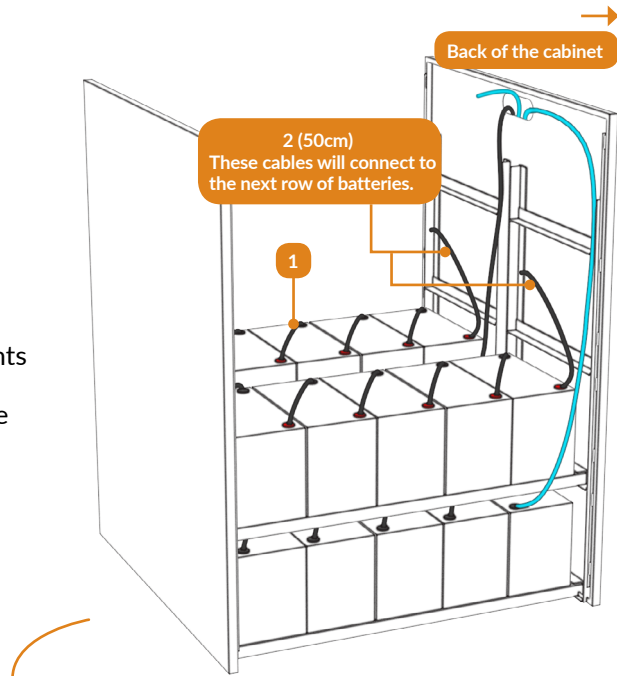
Step 5

Place 10 batteries on the first level, and connect them accordingly.

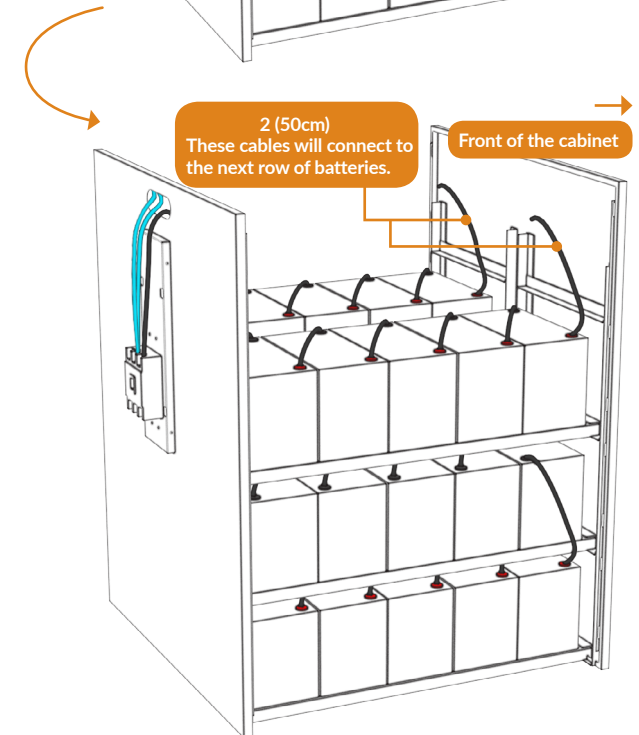
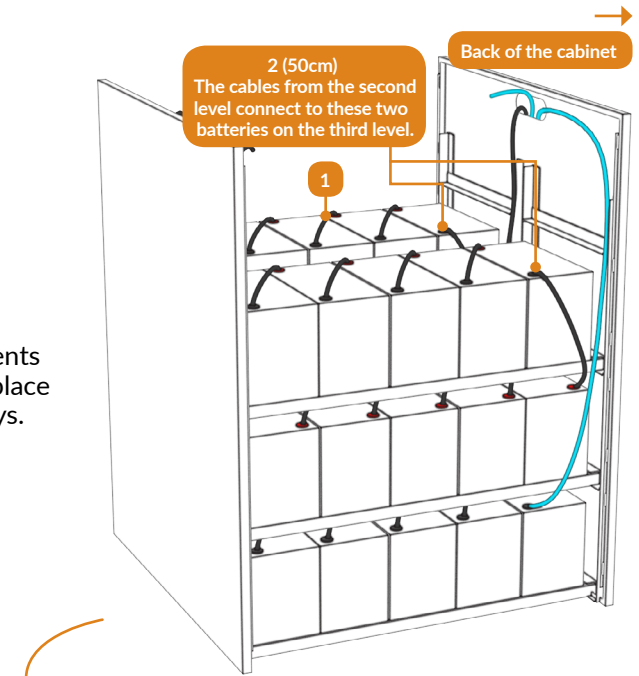
180° rotated angle view



Step 6
Assemble the components for the second level and place 10 batteries on the trays.

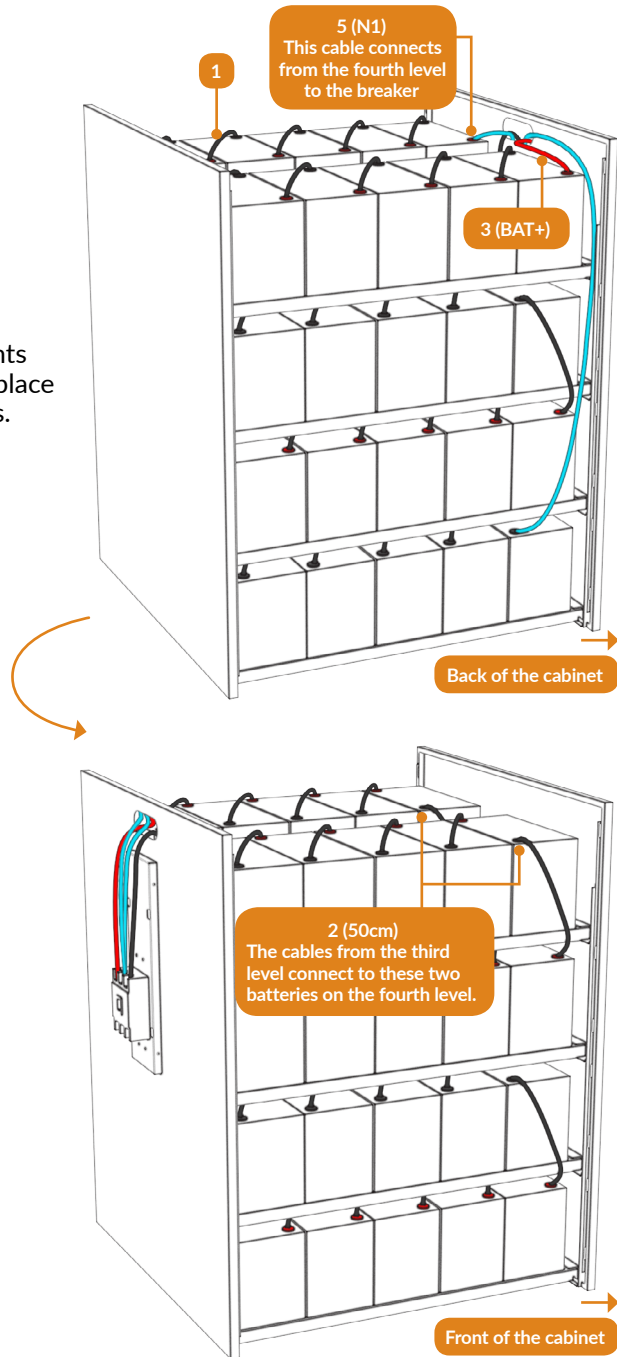


Step 7
Assemble the components for the third level and place 10 batteries on the trays.



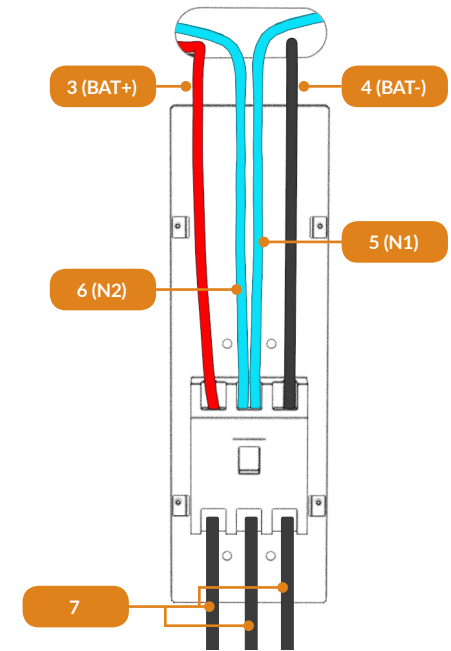
Step 8

Assemble the components for the fourth level and place 10 batteries on the trays.



Step 9

On the back of the cabinet, the wires should be connected to the breaker as shown in the image.



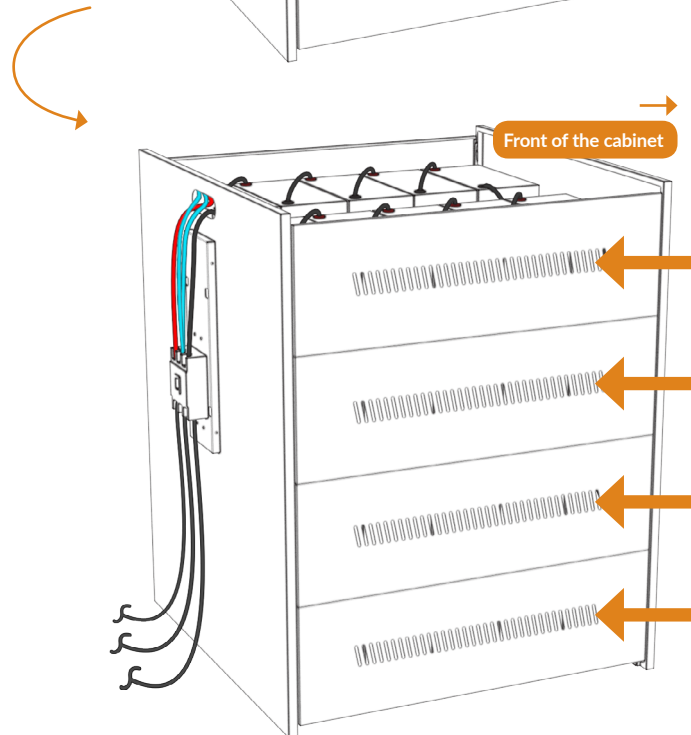
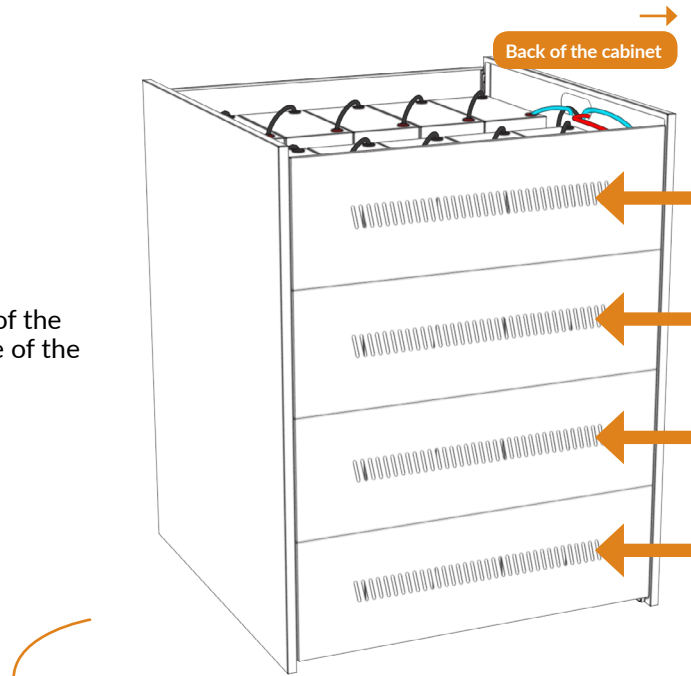
NOTE!

There are a total of 4 cables that connect to the breaker from the battery side of the cabinet, and 3 cables that connect to the breaker from the UPS (or another cabinet) side.

All the cables shipped with the cabinet are black. We used colors on this manual to make the connection diagram and illustrations easier to understand.

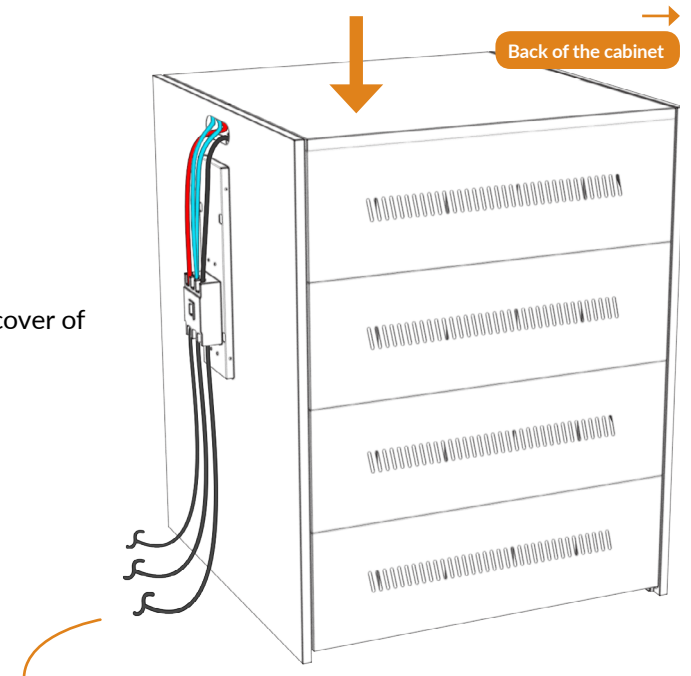
Step 10

Assemble the rest of the panels on each side of the cabinet.



Step 11

Assemble the top cover of the cabinet.



Step 12

Make sure the cables are correctly connected to the breaker and assemble the cover.

These cables should be connected to UPS or another battery cabinet

The cabinet is now ready for use.

