



TC2421JX

100 Ah DIY Battery cabinet

UPBPTC2421JX-AZ01B

Installation and battery connection for 100Ah DIY EBM



242.37.21.0

Before using this product, carefully read all product documentation and retain it for future reference.

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:

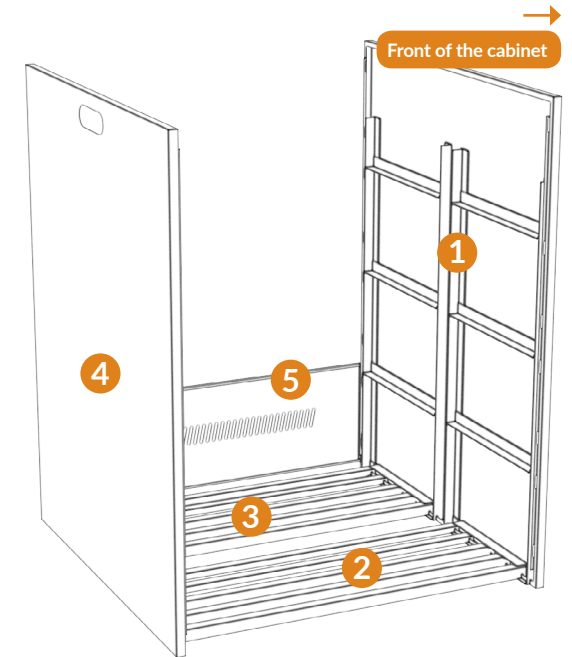
Ranger Series

120KT / 180KT

1 Installation and assembly of the cabinet

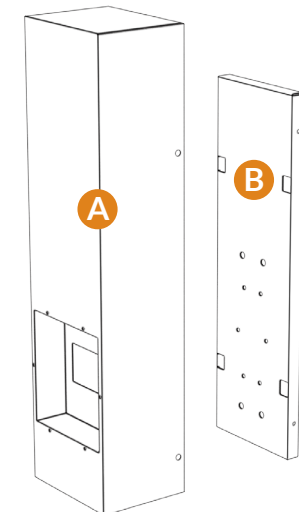
Step 1

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



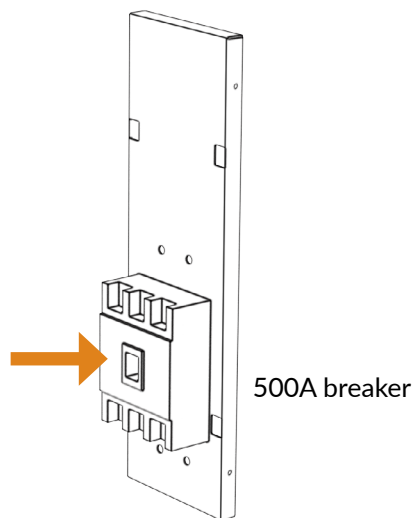
Step 2

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



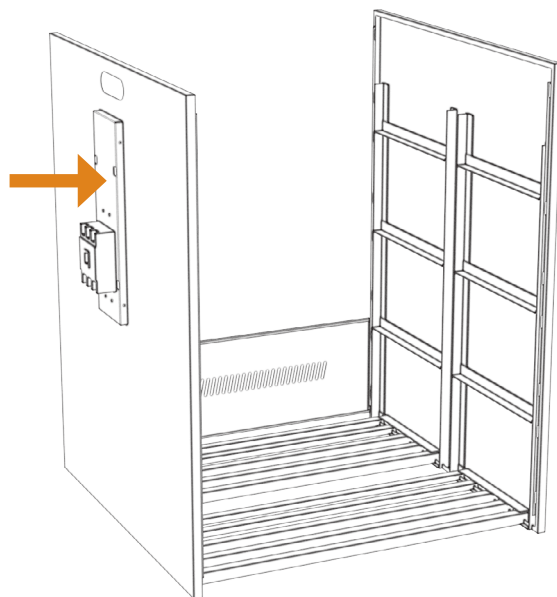
Step 3

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:

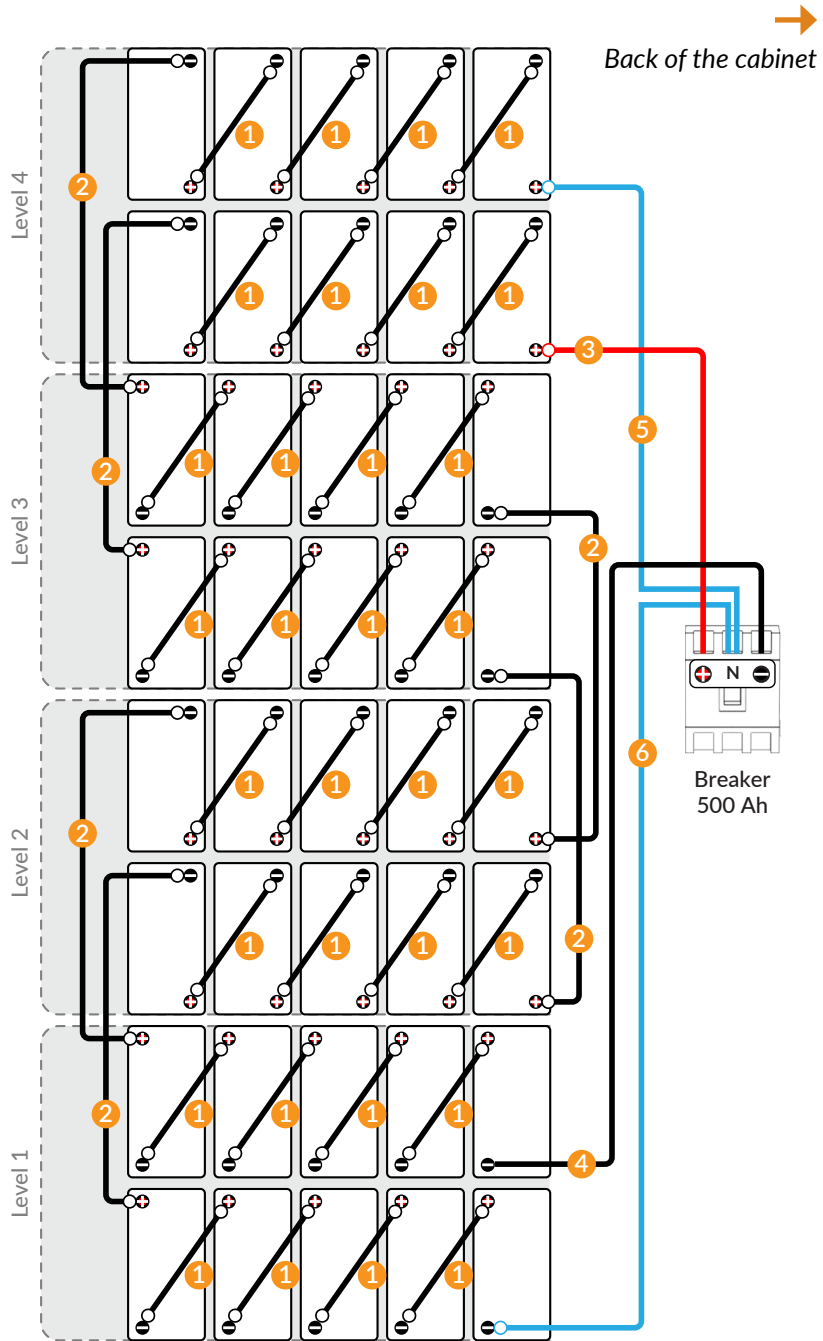
No.	Name	Description	Length (cm)	Quantity (pcs)	Observations
1	1	Battery to Battery AWG 0000	35	32 x 2	Ring 8.4mm to Ring 8.4mm
2	2	Battery to Battery AWG 0000	50	6 x 2	Ring 8.4mm to Ring 8.4mm
3	BAT+	Battery to Breaker positive (+) Pole AWG 0000	80	1 x 2	Ring 8.4mm to Ring 10.4mm
4	BAT-	Battery to Breaker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

NOTE!

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

For all cables shown in diagram you need to connect two cables. for example, between each batteries you need to use 2 pieces of No. 1 cable so the cables could withstand high current in the cabinet.

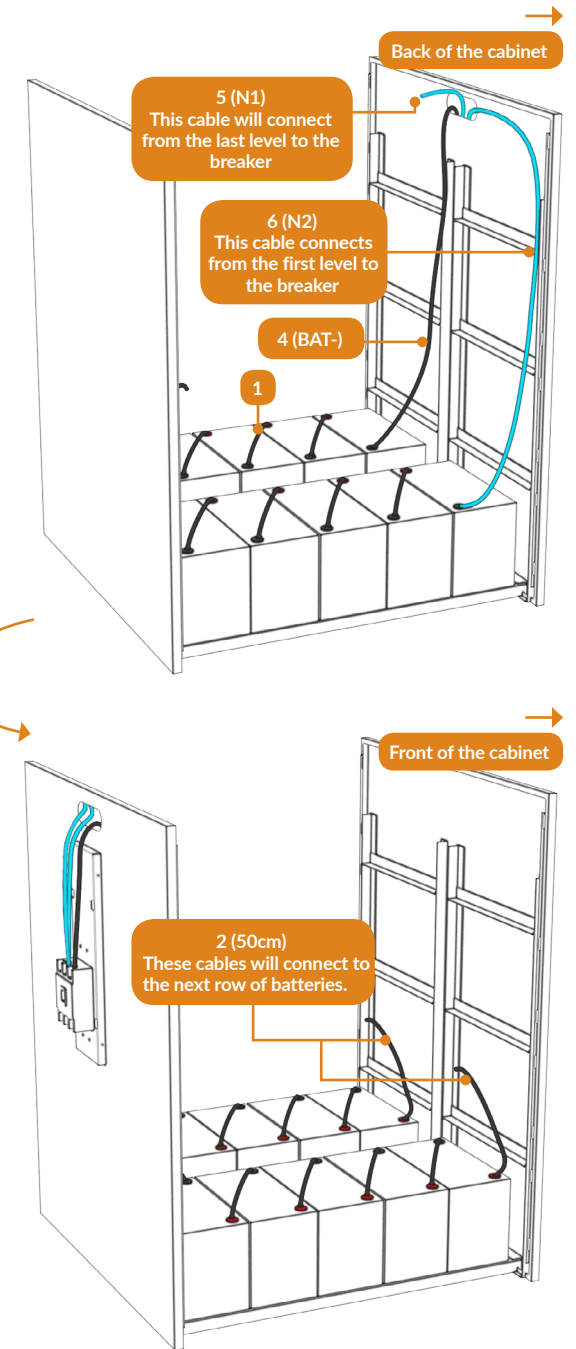
Top



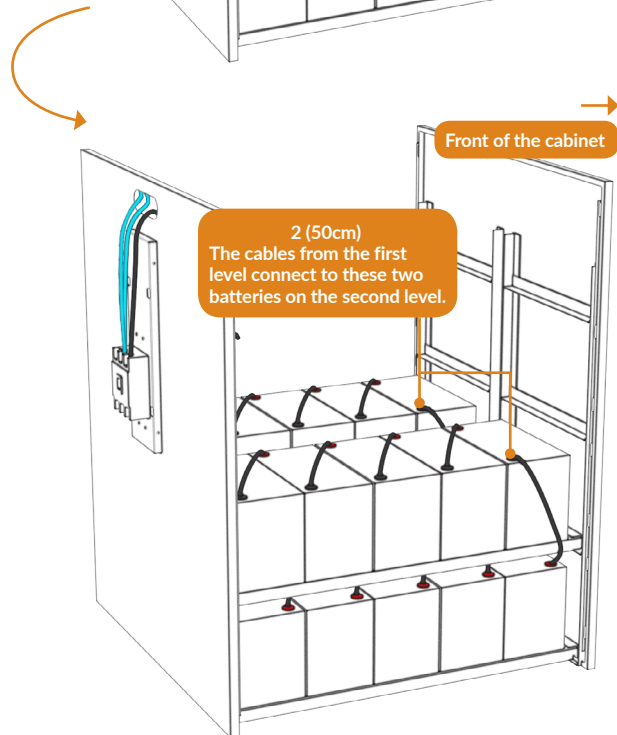
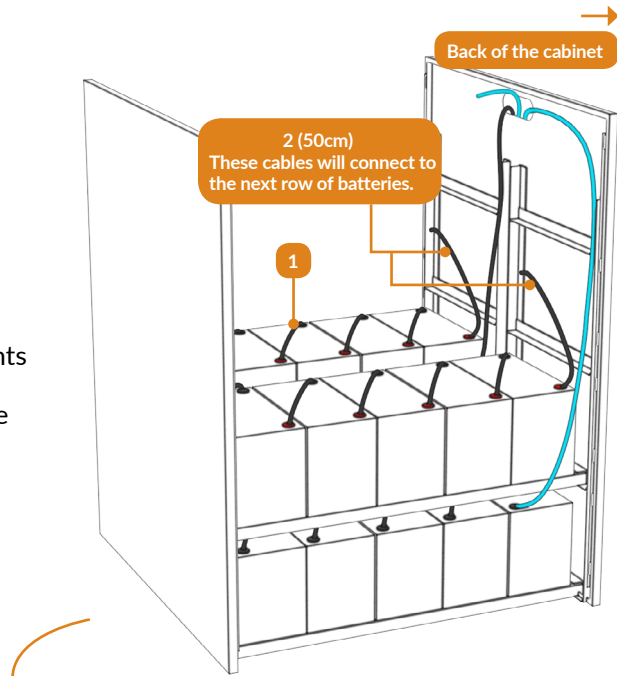
Step 5

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

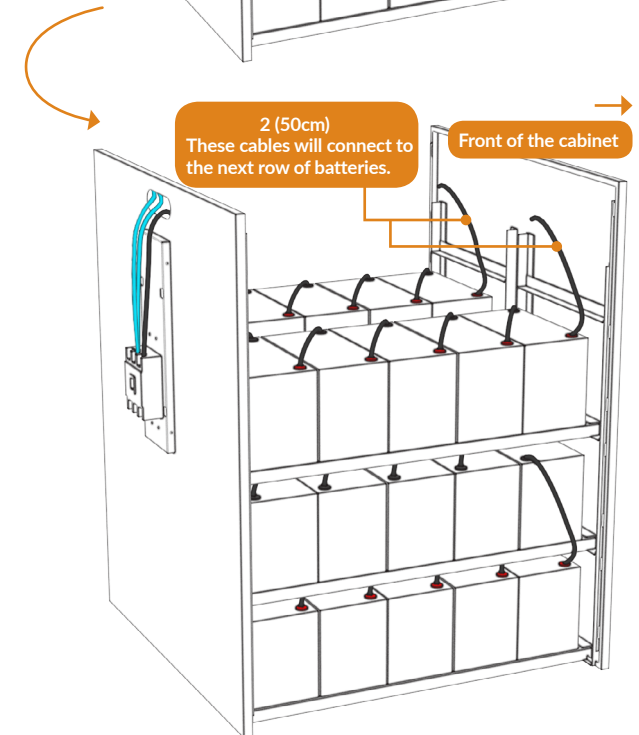
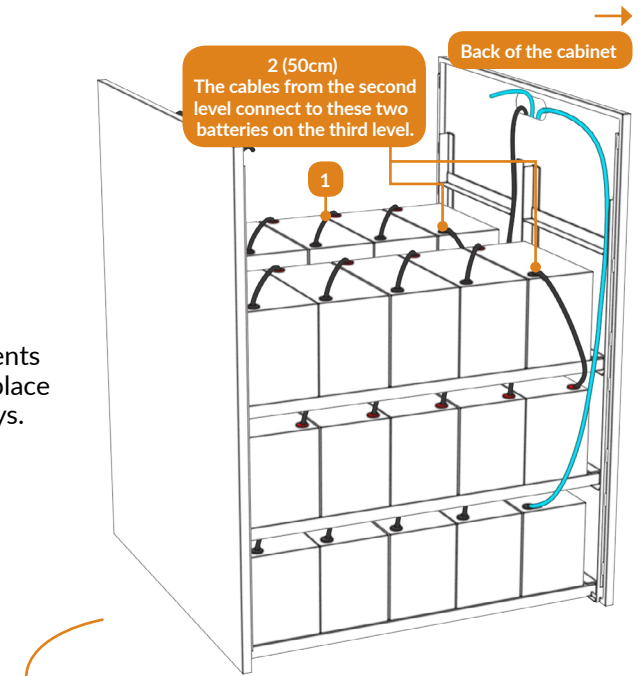
180° rotated angle view



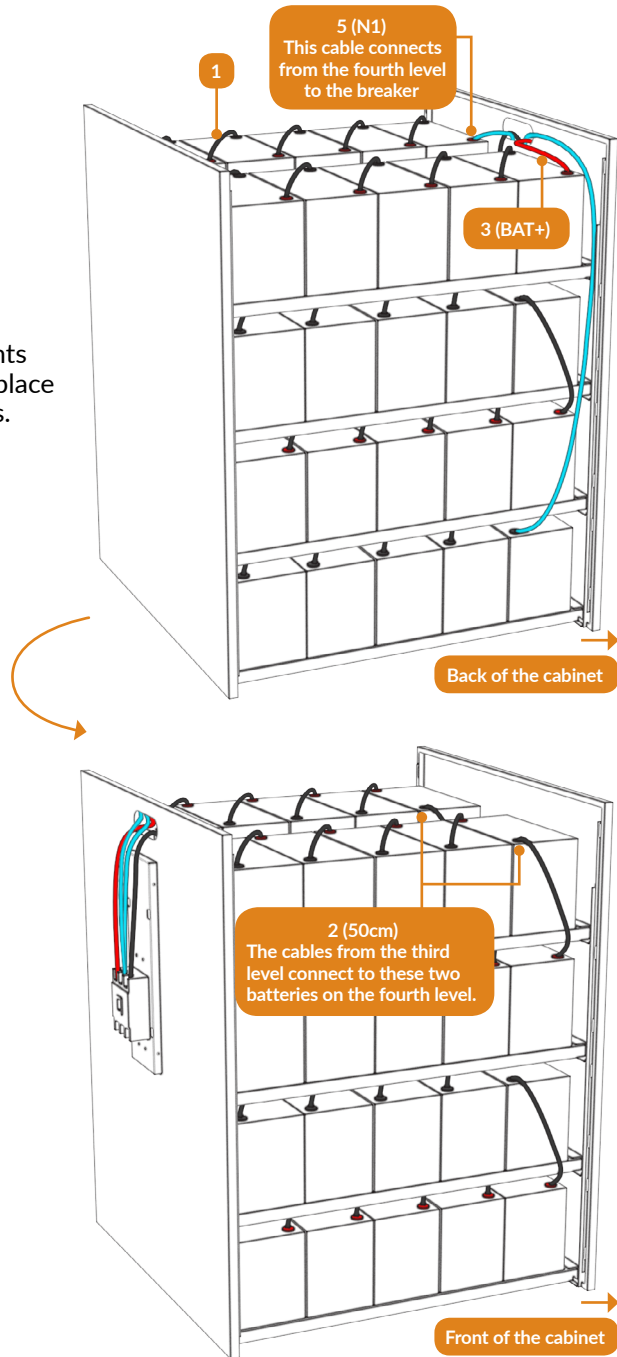
Step 6
Assemble the components for the second level and place 10 batteries on the trays.



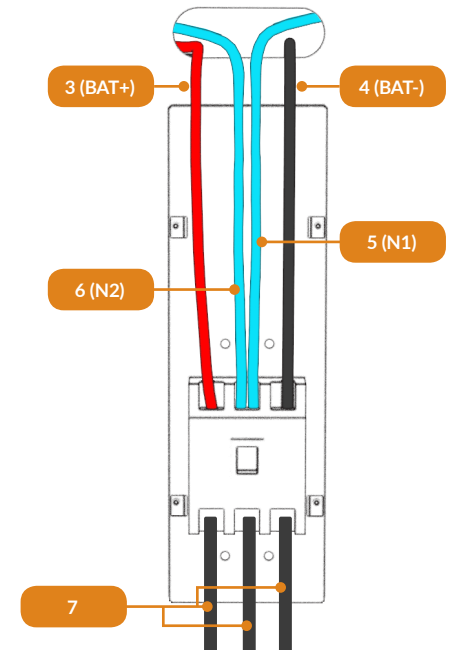
Step 7
Assemble the components for the third level and place 10 batteries on the trays.



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.



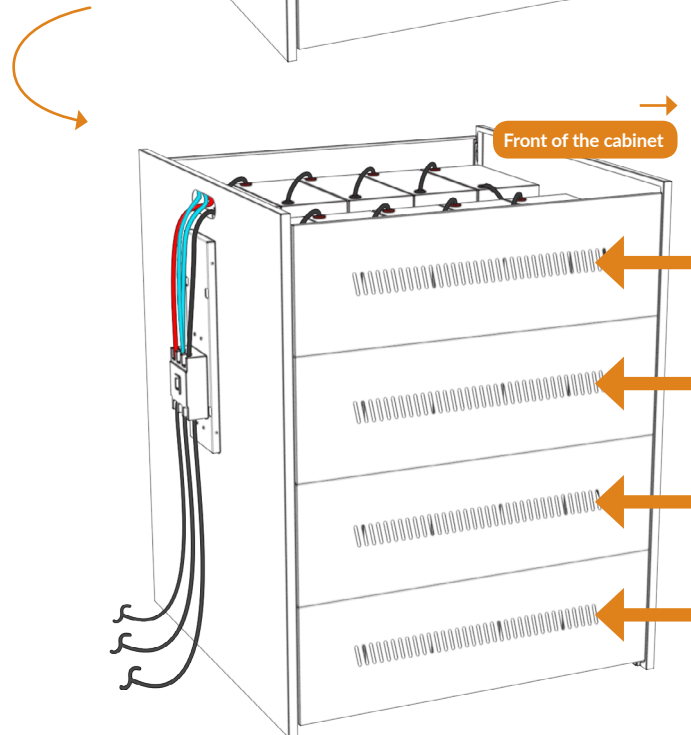
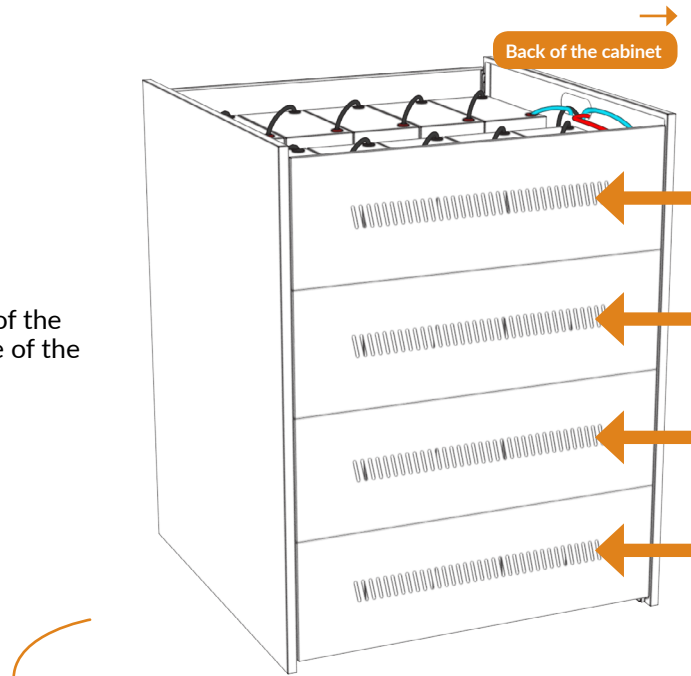
NOTE!

There is a total of 2x4 cables that connect to the breaker from the battery side of the cabinet, and 2x3 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.

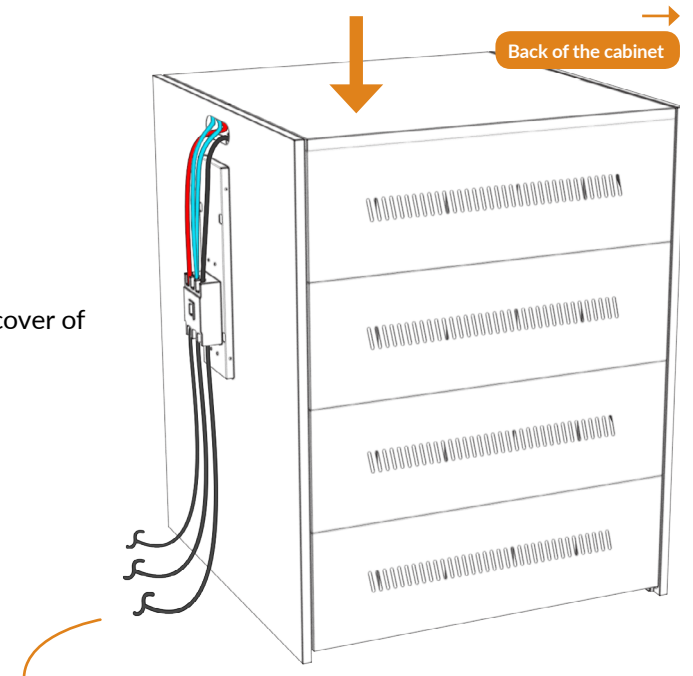
Step 10

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.

