



# TC2421IX

100 Ah DIY Battery cabinet

UPBPTC2421IX-AZ01B

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## Installation and battery connection for 100Ah DIY EBM



242.37.21.0

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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:

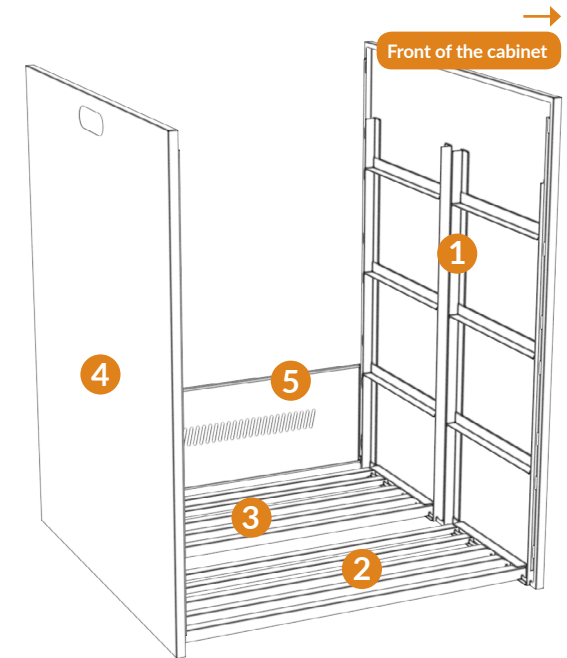
Ranger Series

120KT / 180KT

## 1 Installation and assembly of the cabinet

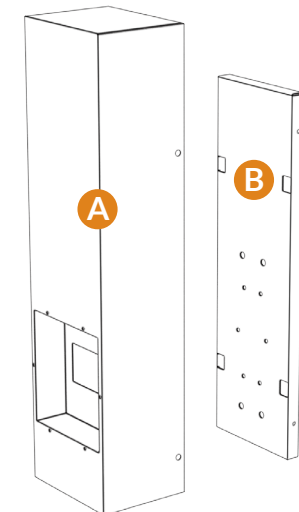
### Step 1

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



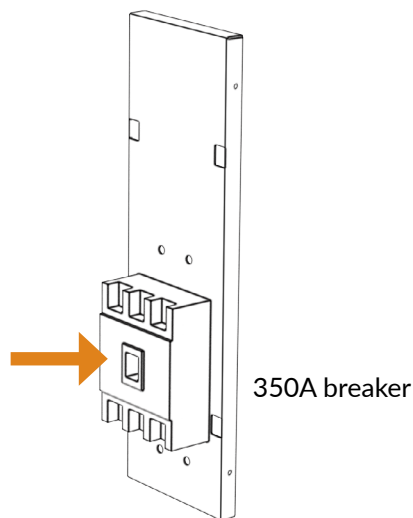
### Step 2

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



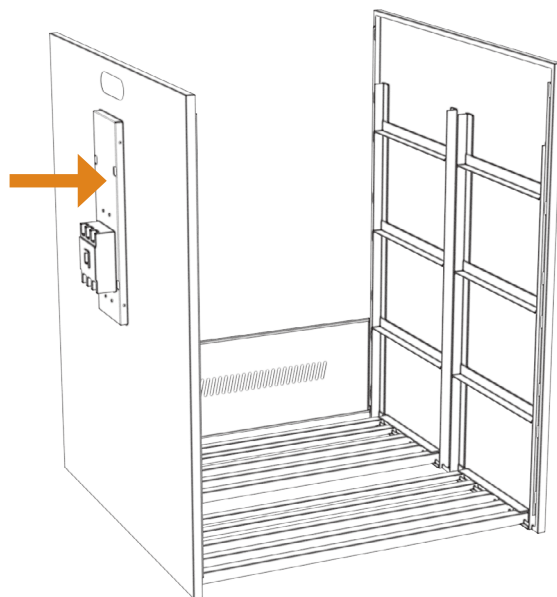
### Step 3

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:

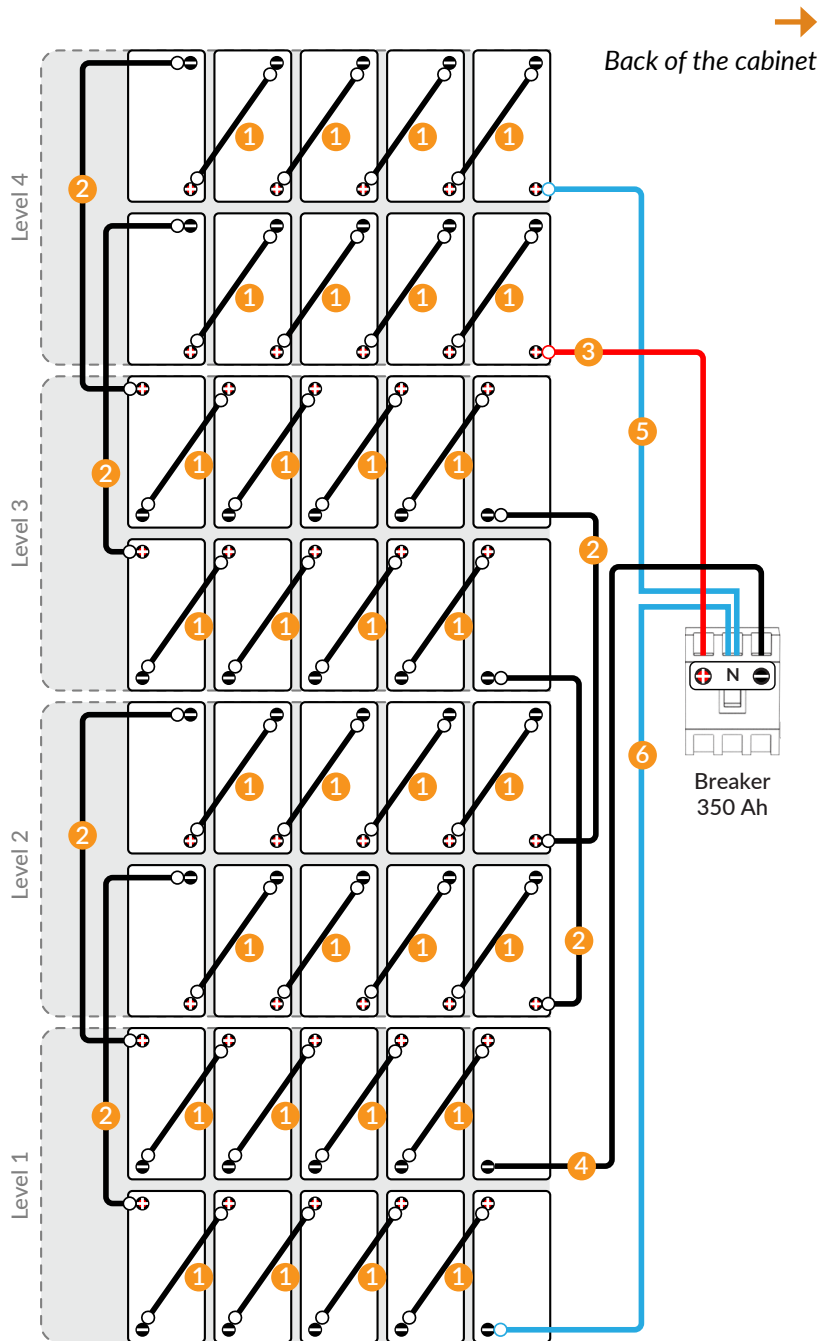
No.	Name	Description	Length (cm)	Quantity (pcs)	Observations
1	1	Battery to Battery 2x AWG 1/0	35	32	Ring 8.4mm to Ring 8.4mm
2	2	Battery to Battery 2x AWG 1/0	50	6	Ring 8.4mm to Ring 8.4mm
3	BAT+	Battery to Breaker positive (+) Pole 2x AWG 1/0	80	1	Ring 8.4mm to Ring 10.4mm
4	BAT-	Battery to Breaker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

Each cable in the battery cabinet consists in two cables linked to the same connector.

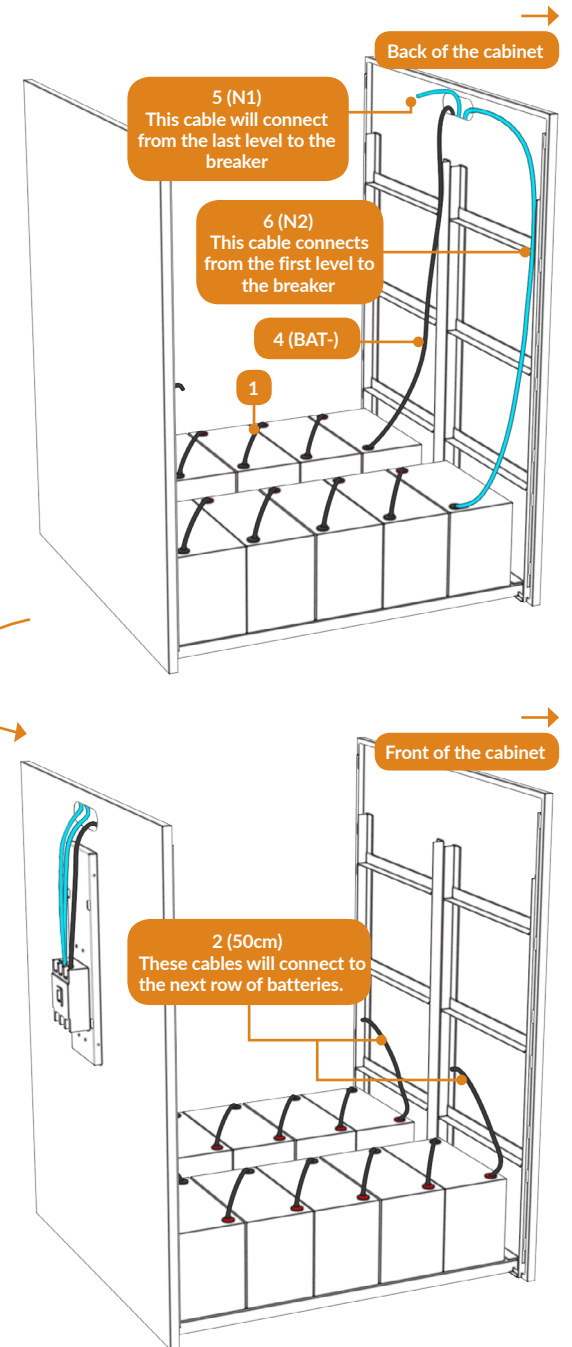
Top



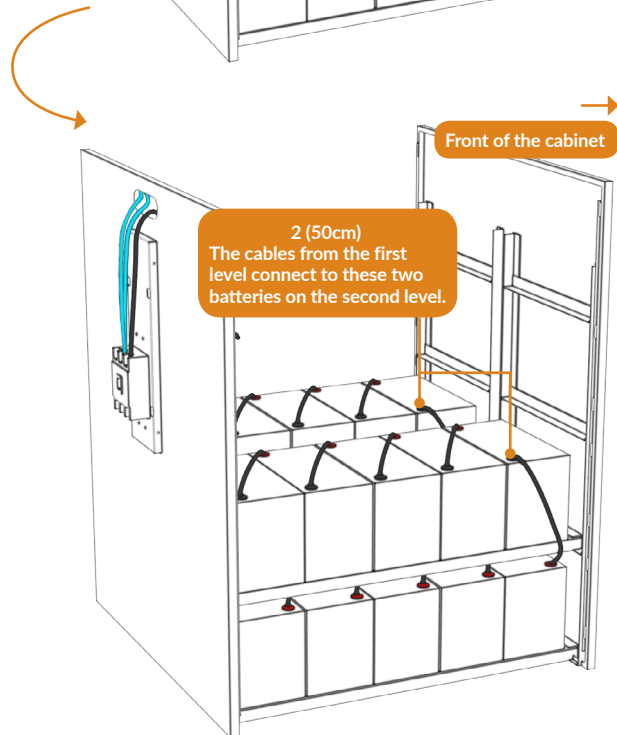
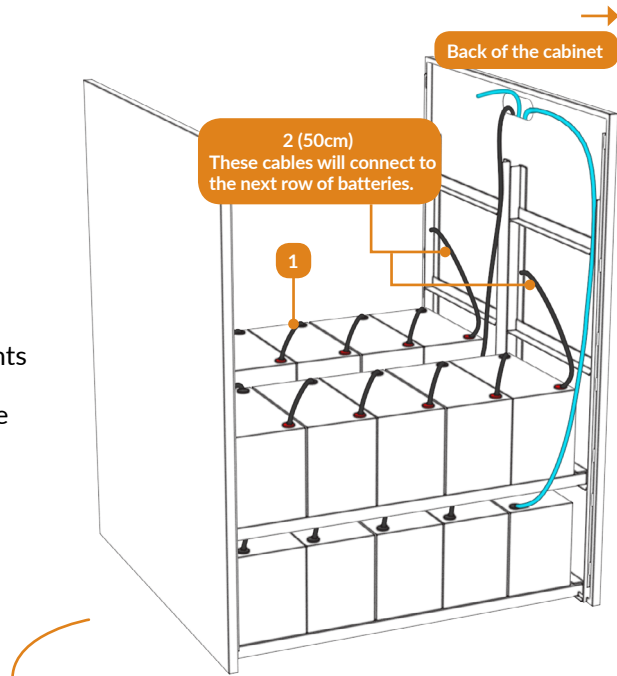
### Step 5

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

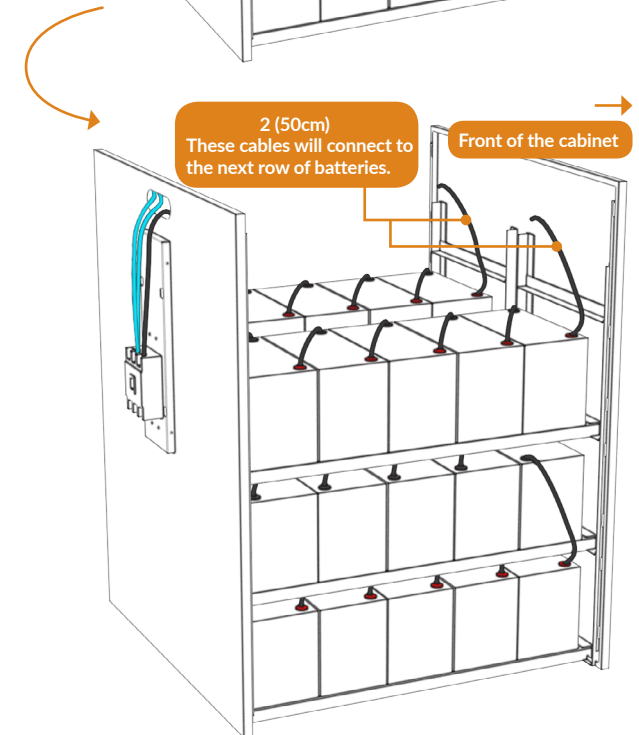
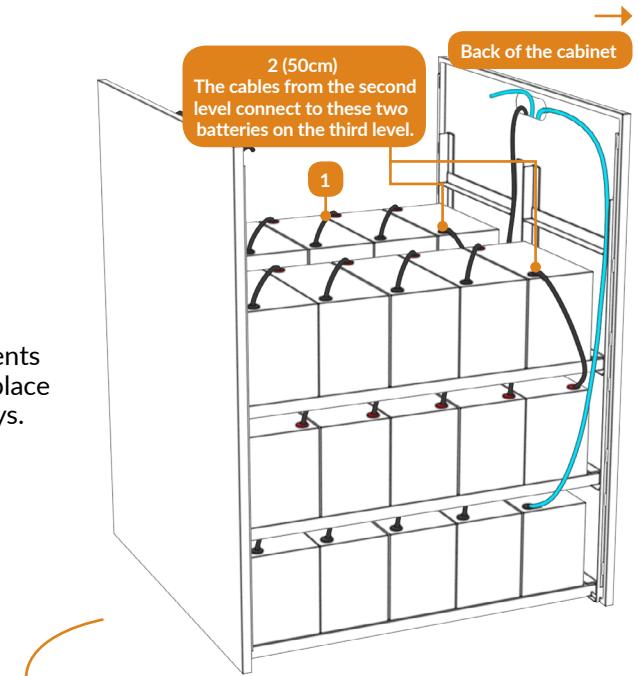
180° rotated angle view



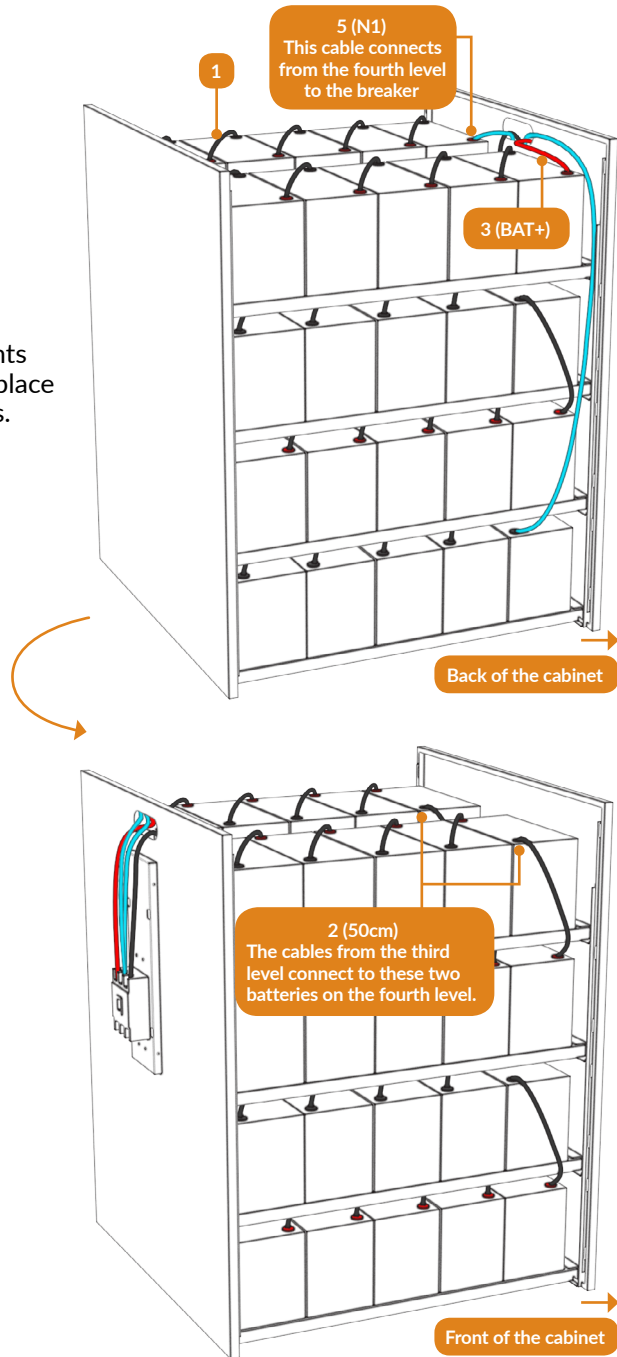
**Step 6**  
Assemble the components for the second level and place 10 batteries on the trays.



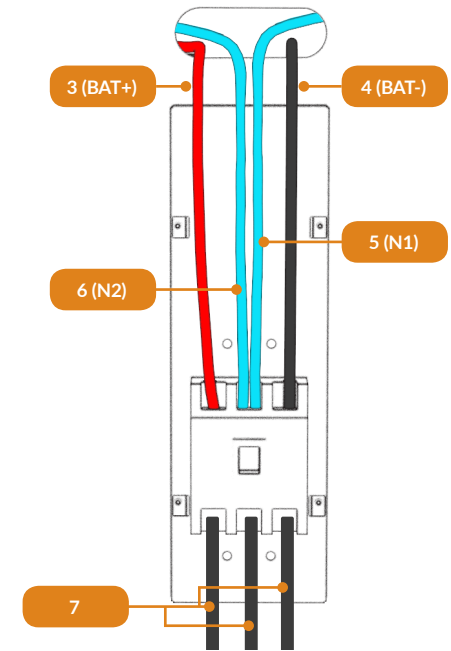
**Step 7**  
Assemble the components for the third level and place 10 batteries on the trays.



**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.



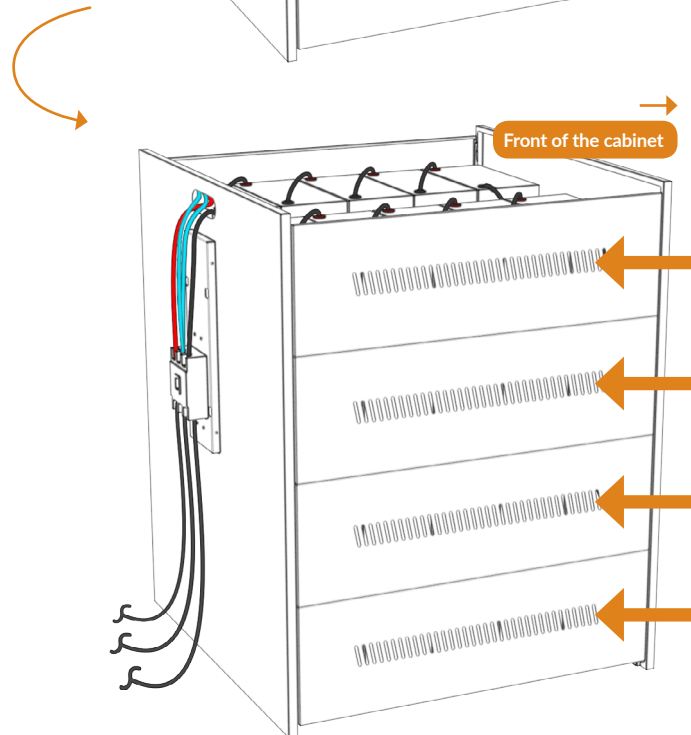
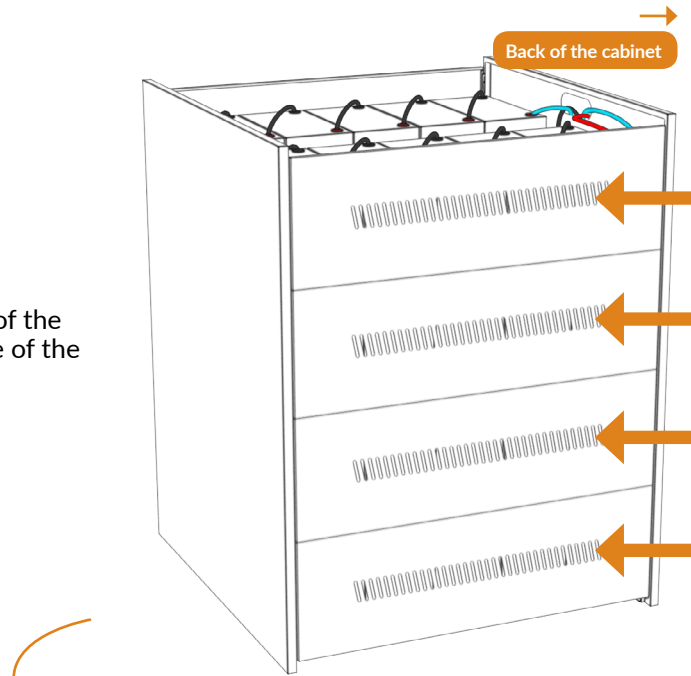
**NOTE!**

There is a total of 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.

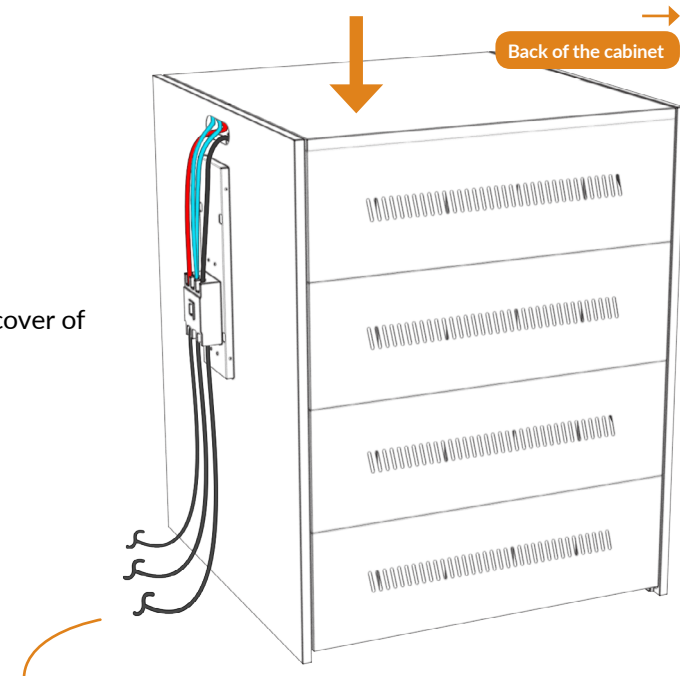
**Step 10**

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



**Step 11**

Assemble the top cover of the cabinet.

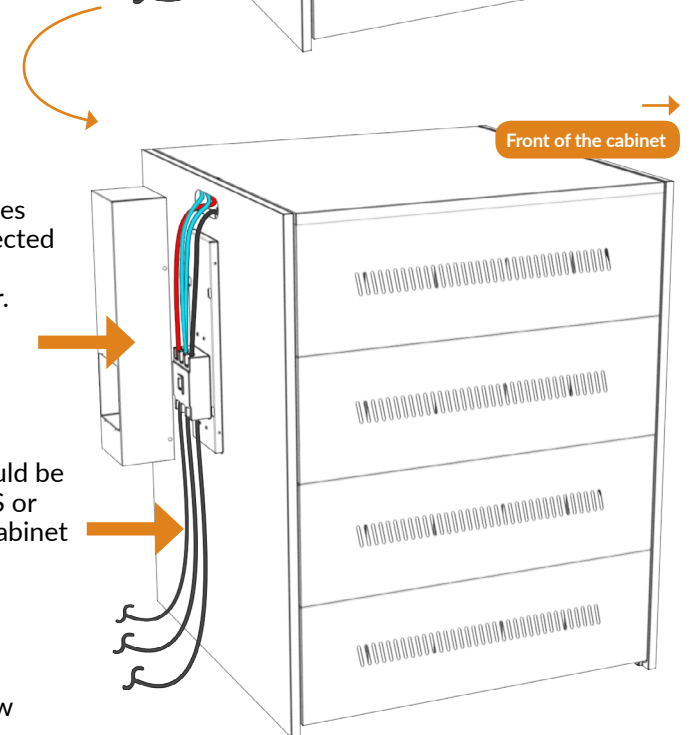


**Step 12**

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.



 Memo



**Disposal of Old Electrical & Electronic Equipment**

*(Applicable in the European Union and other European countries with separate collection systems)*

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste.

Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment.

By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product.

The recycling of materials will help to conserve natural resources.

A series of horizontal dotted lines for taking notes, starting below the 'Memo' header.



