

# SETUP MANUAL GALLAGHER ELECTRIFIED VANDALPROOF BOX V2.0



## Setup Manual Gallagher Vandal Proof Box V2.0 (091522)



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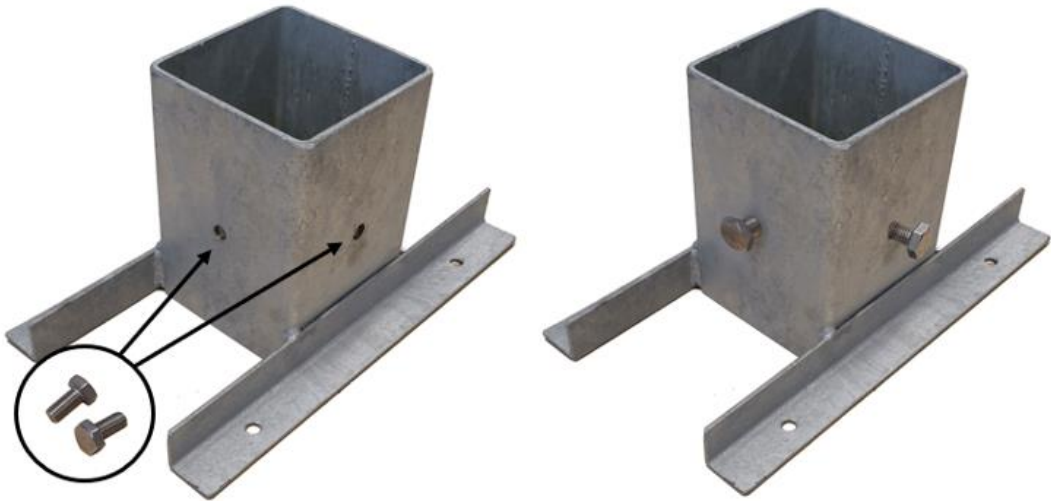
## Setting up the box

### Step 1, Prepare the post holder

Bolt 2x M10x25 approx. 4mm in the pre drilled mounting holes of the post holder.

Both post holder and the bolts can be found in the box.

The post holder is suitable for a 100x100mm square or round posts.



2 pcs. M10x25 Bolt (included)



1 pc. 17mm combination spanner (not included)

### Step 2, Mounting the High Voltage Insulators

The post holder and box are electrical separated by 4 High Voltage Insulators.

Fasten the High Voltage Insulators on top of the Post holder by using the M8x10 bolt and M8 washer.



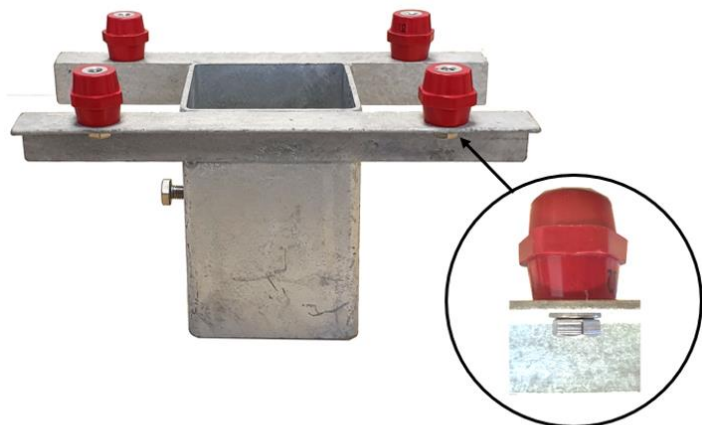
4 pcs. High Voltage Insulator (included)

8 pcs. M8x10 Bolt (included)

8 pcs. M8 Washer (included)



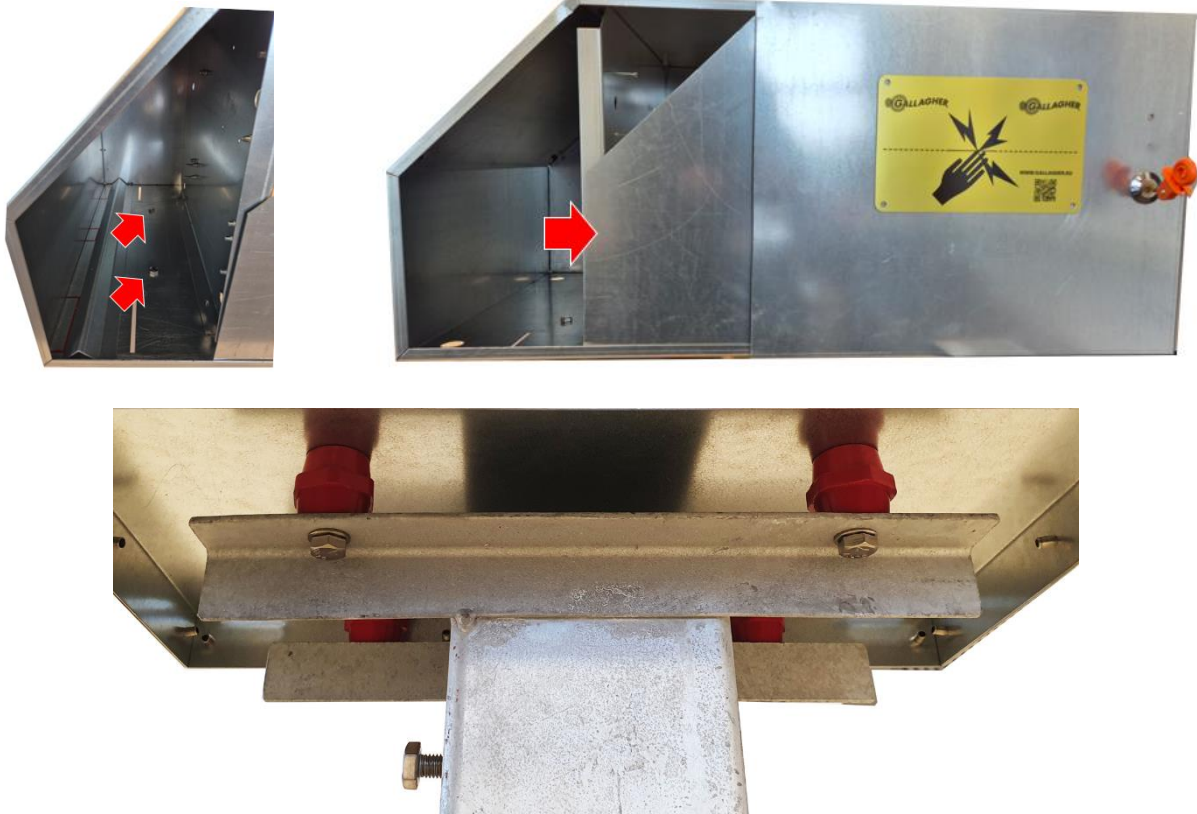
1 pc. 13mm combination spanner (not included)



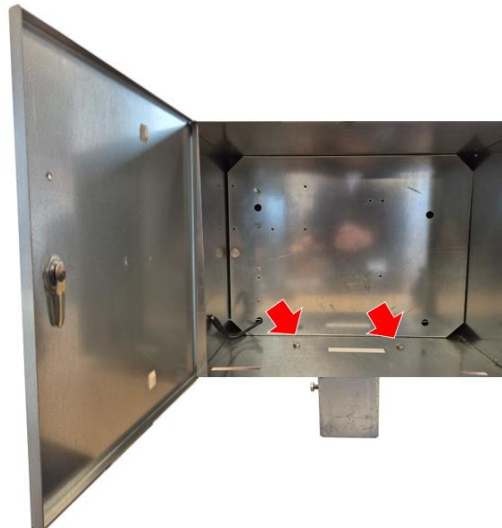
### Step 3, Attach the box to the pole holder

Slide the left panel (half) open, this opens the battery compartment of the box.

Remove the 2 metal (battery) support brackets and locate the 2 mounting holes for fastening the post holder to the bottom.



Place the post holder under the box and line up with the mounting holes.  
Fasten the High Voltage Insulators with the M8x10 bolts and M8 washers.



Repeat this at the front side of the box, make sure all 4 bolts are tightened firmly.  
Put the 2 metal support brackets back in the batterie compartment.

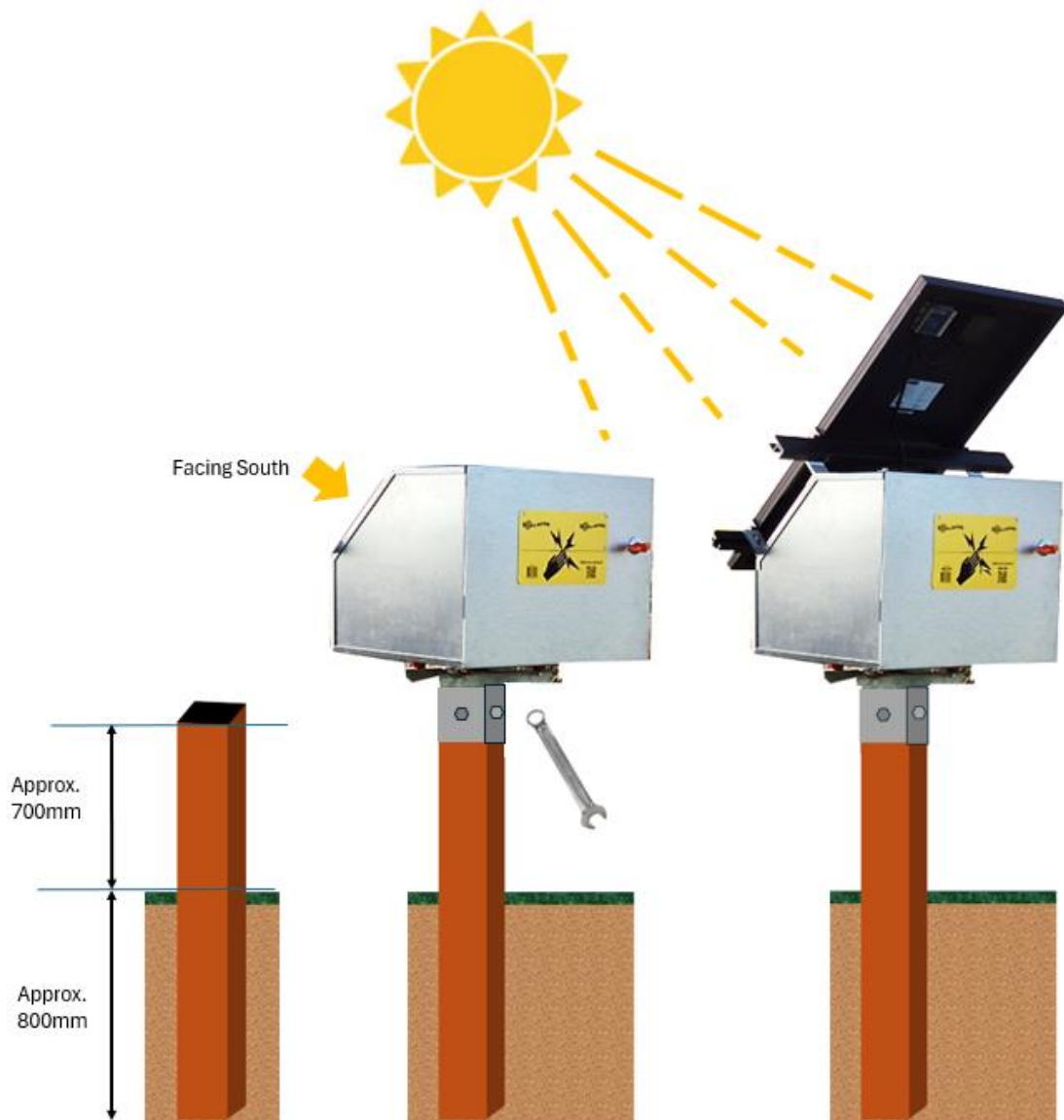
## Step 4, Place the box on a post

For a solid installation of the box, Gallagher recommends to place the box on a 1500x100x100mm square post.

Find a suitable location for positioning the electrified box and place the post approximately 800mm deep into firm, solid ground, place the post holder with the box on top of the post and tighten the 2 bolts in the post holder firmly with a 17mm (combination) spanner.

### Important!

In case there will also be a solar panel installed, place the backside of the box facing south.

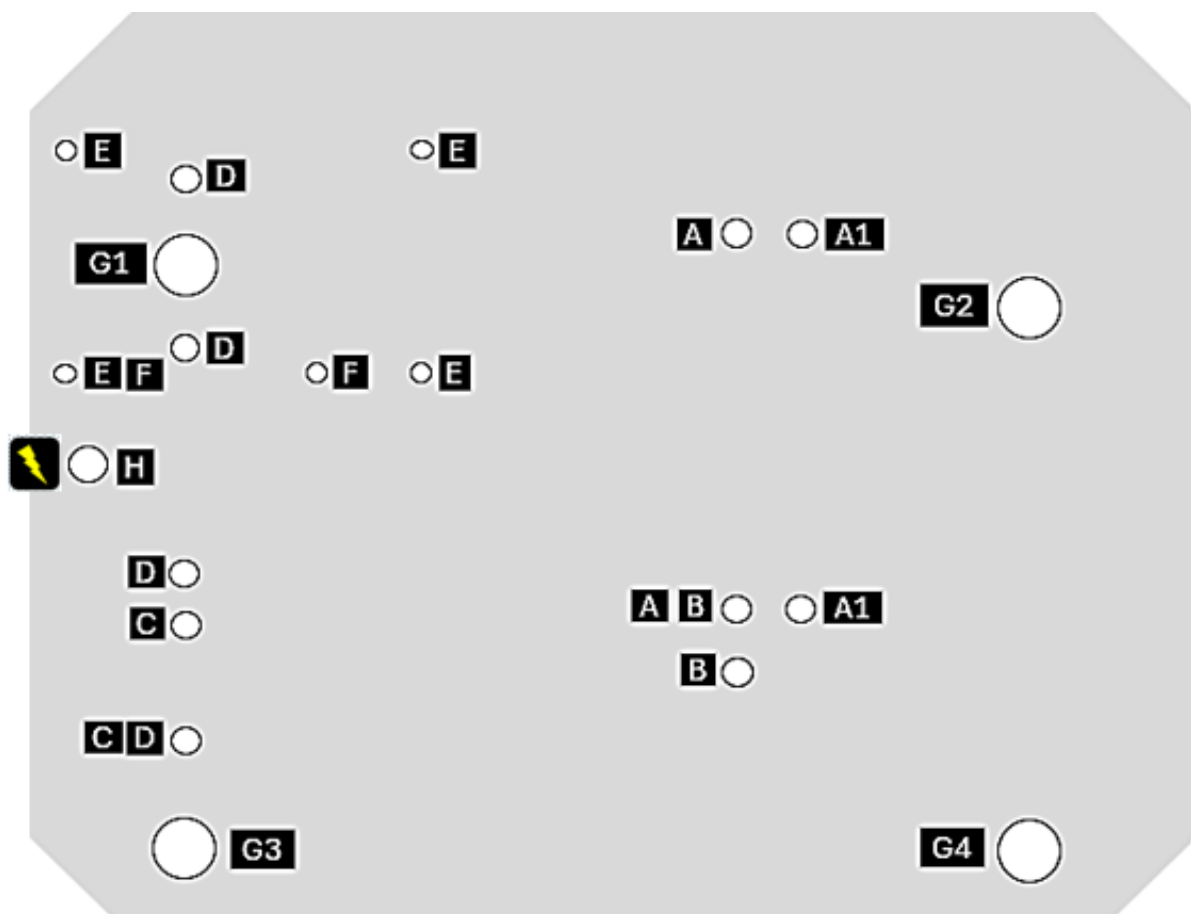
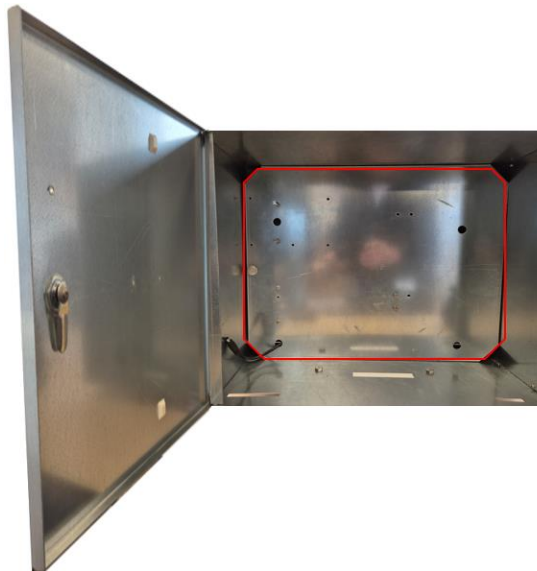




## Step 5, Setting up the box

The inner wall of the box has pre-drilled holes for various energizers and accessories.


Depending on your desired configuration, you can use the positions below to mount your energizer and accessories.



## Description back wall pre-drilled mounting positions,

- A** MBS i Series Energizers (\*screw M5x16)
- A1** MBS i Series Energizers when in combination with i Series Controller
- B** MB, MBS Energizers (\*screw M5x16)
- C** App Gateway (\*screw M4x16)
- D** Gallagher Cut Out Switch (\*screw M4x30)
- E** i Series Controller
  
- F** Fixing holes for mounting wire (cable-tie 4mm)  
Useful in case there will be a i Series controller or a App Gateway installed. The connection wire can be bundled together and fasten in the battery compartment by using these holes for the cable-tie.

**G1+G2+G3+G4** Wire passage

- H**  Wire clamp with nut (box power connection)

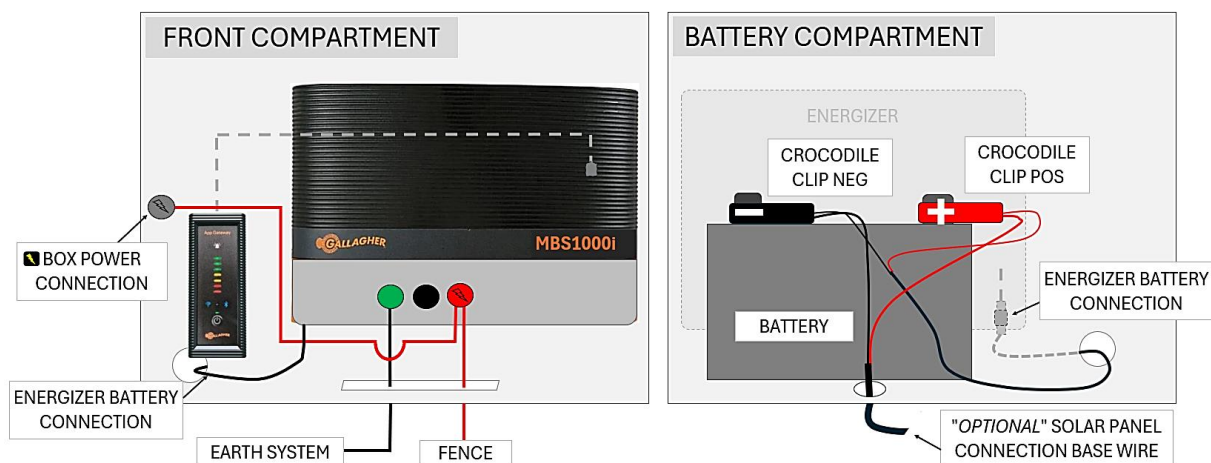
*(All screws marked with \* come included with the box)*

## Step 6, Basic Setup Vandal Proof Box with Gallagher Energizer

### A, Basic setup *without* Gallagher Cut Out switch

In this configuration to switch off the power on the box, the Energizer must be switched off, this also will switch off the power on the fence.

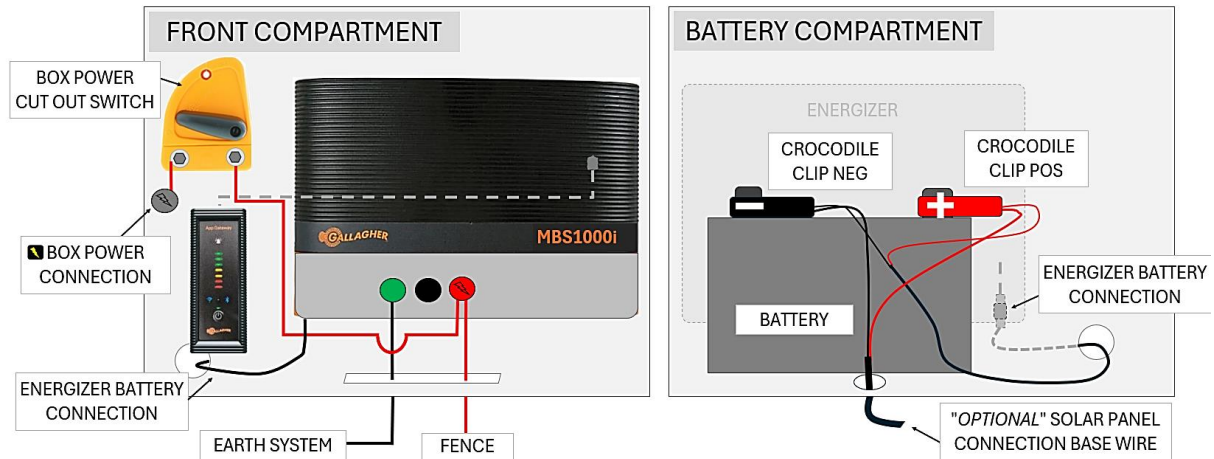
To connect the box, the Gallagher joint clamp (included), needs to be installed to make the connection between the fence terminal and the box.



## B, Basic setup with Gallagher Cut Out switch

By adding the Gallagher Cut Out switch, the user is able to switch off the power on the box and maintain the power on the Fence.

To connect the box, the Gallagher joint clamp (included), needs to be installed to make the connection between the fence terminal and the box.

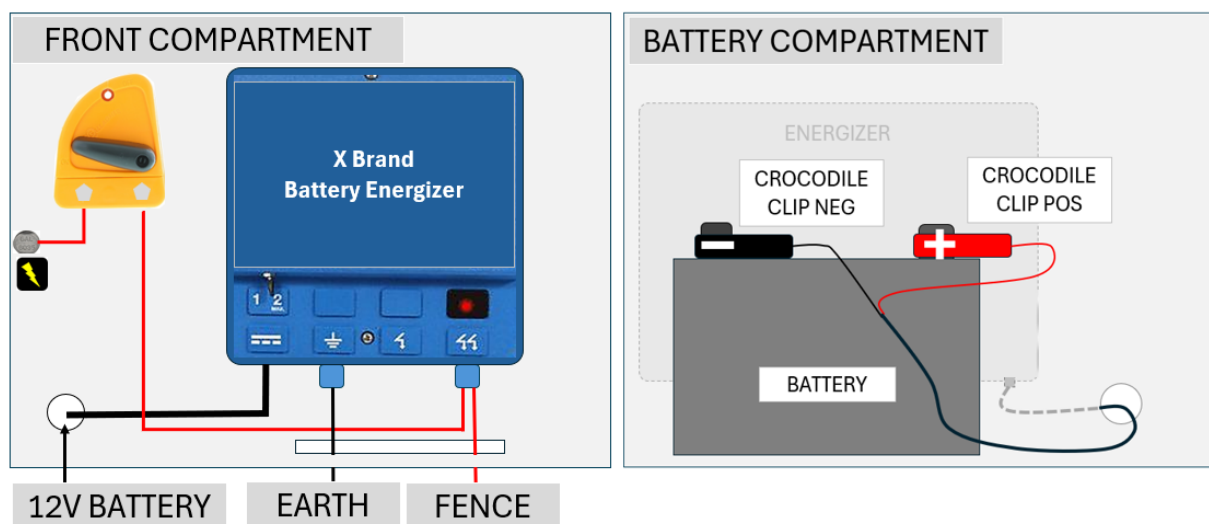


## C, Basic setup with random Battery Energizers

Install a Gallagher Cut Out Switch (position D) and connect (right nut) with Lead-out wire to the Fence terminal of the Energizer. By adding the Gallagher Cut Out switch, the user is able to switch off the power on the box and maintain the power on the Fence.

Connect the left nut of the Cut Out Switch with the Wire clamp (position H).

Connect the battery power lead from the Energizer to the battery poles (black is NEG, red is POS!). The battery is stored in the battery compartment in the back of the box.





## D, Possible configurations Vandal Proof Box with Gallagher MBS i Series



1. Gallagher MBS i Series Energizer with App gateway.
2. Gallagher MBS i Series Energizer with i Series Energizer Controller.



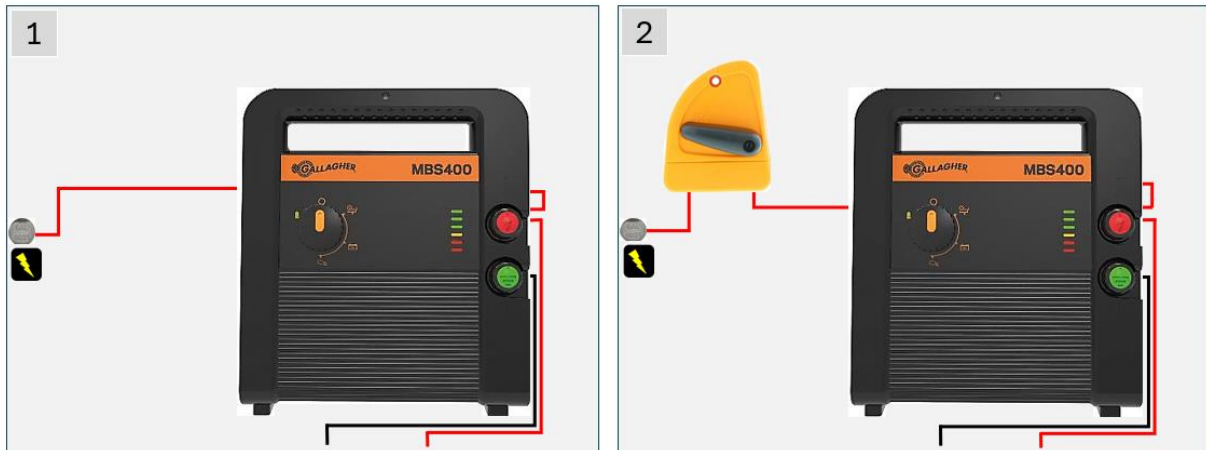
3. Gallagher MBS i Series Energizer with App gateway and Gallagher Cut Out switch .
4. Gallagher MBS i Series Energizer with i Series Energizer Controller and Gallagher Cut Out switch .



5. Gallagher MBS i Series Energizer with App gateway and \*Gallagher Fence Control.
6. Gallagher MBS i Series Energizer with i Series Energizer Controller and \*Gallagher Fence Control.

**\*Read the Gallagher Fence Control instruction manual on how to connect.**

## E, Possible configurations Vandal Proof Box with Gallagher MBS Series



1. Gallagher MBS Series
2. Gallagher MBS, MB and B Series with Gallagher Cut Out switch.

## Step 7, Battery connection

The battery can be stored in the back of the box, open the door and slide the left panel half way in the opened door. Now the battery compartment can be reached at the left side of the box.



Place the battery in the compartment and guide the battery power cable thru one of the pre-drilled wire passage positions (positions G1, G2, G3, G4).

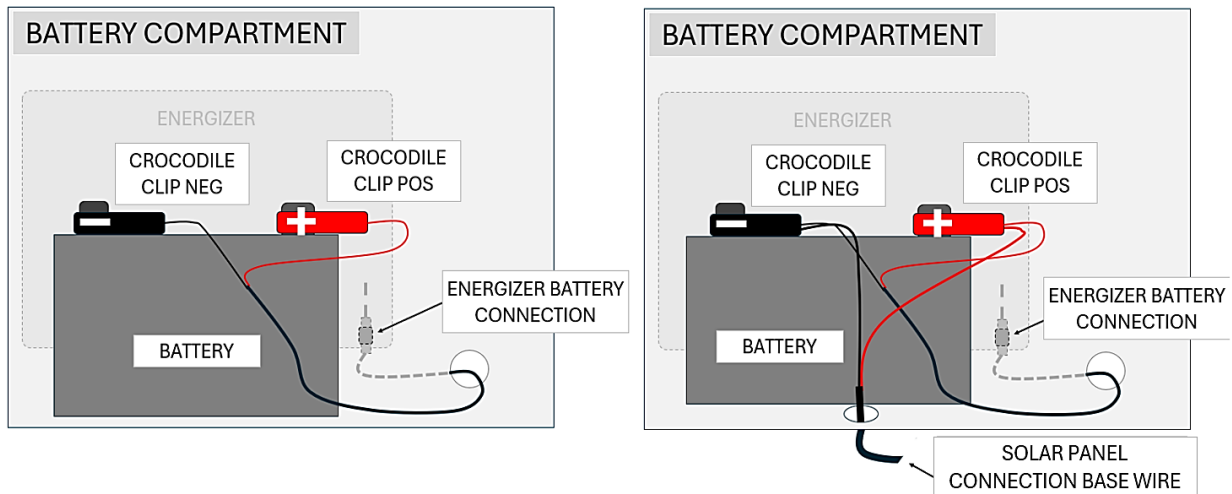
Connect the 12V power supply wire from the Energizer with the terminals of the battery.

**Pay special attention to the correct polarity (red on red POS / black on black! NEG)**

The crocodile clips can be connected with the terminals of the battery, the black crocodile clip on the MINUS (small) terminal / pole, the red crocodile clip on the PLUS (big) terminal / pole.

**Be careful!**

If the POSITIVE is swapped with the MINUS, and a Solar panel is also installed, this could irreparably damage the regulator on the solar panel! (Not covered by warranty).



## Step 8, Mounting a Gallagher Solar panel (optional)

### Parts to order

1x 090808: Solar Panel Rail Kit

1x 091454: Solar Connection Base wire

### Select a appropriate solar panel for the application

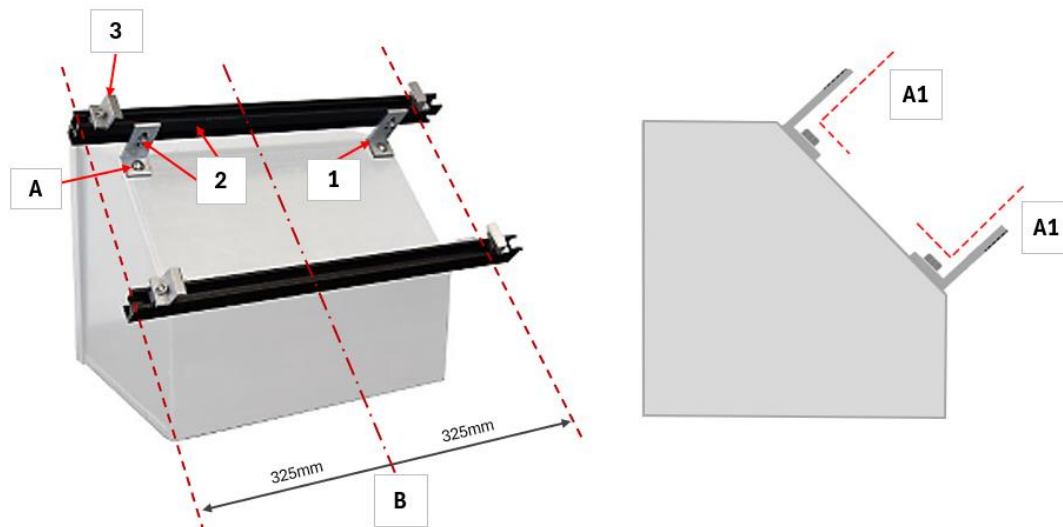
090693: Solar panel Mono AB 120W incl. regulator

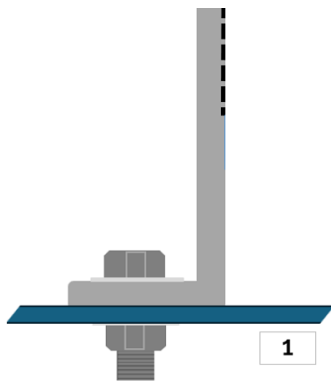
090686: Solar panel Mono AB 60W incl. regulator

090679: Solar panel Mono AB 30W incl. regulator

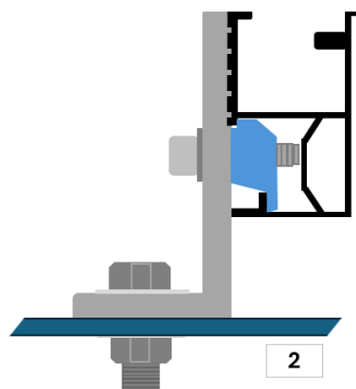
### Mounting the reel

First remove the sealing caps from the pre-drilled mounting holes positioned in all 4 corners of the inclined plane of the cabinet (A).



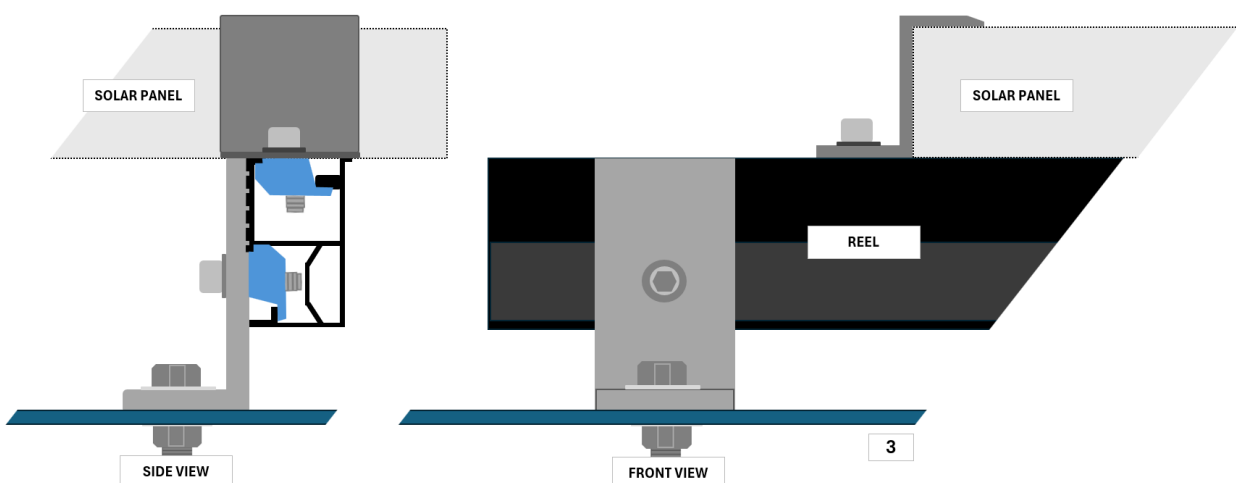


**1,** Bolt in each corner one L-shaped bracket, use the M8x25 bolts and nuts that came included with the Solar Panel Rail Kit (see image A1 for the correct position of the brackets).



**2,** Assemble both aluminium reels (first loosely), by bolting the clamps with a M8x30mm bolt to the L-brackets (the clamps and bolts are included with the Solar Panel Rail Kit). Align both reels with the box (B), and tighten the bolts.

**3,** Place the solar panel clip on top of the reel and place the solar panel under the clips, align the solar panel in good balance with the box. Always place the box with the solar panel facing south.



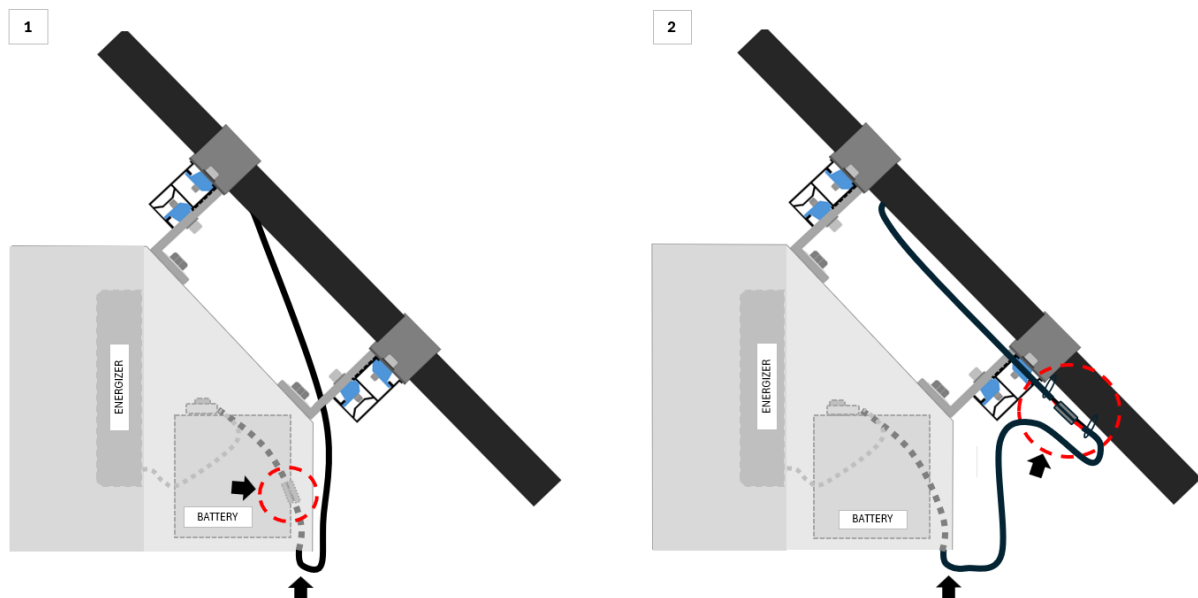
## Connecting the Solar Panel

All Gallagher solar panels are equipped with a terminal box, built-in battery charge controller and battery connection wire including MC4 connectors.

To connect the solar panel to the battery there is also the Gallagher Solar Connection Base Wire needed. (part number 091454).

After the solar panel is mounted the battery connection wire can be guided thru the bottom of the box, route both MC4 connectors from the solar panel through the 22mm hole located in the centre at the rear side of the box.

If the Solar panel wire is too short to reach the battery compartment, then connect the MC4 connectors behind the solar panel and protect the MC4 connections as much as possible against bad weather conditions such as direct rain fall. Mount the cable to the solar panel rail by using cable-ties (image 2).



## Step 9, Connecting the Solar Connector Base Wire with the battery

Inside the battery compartment, connect the Gallagher Solar Connector Base Wire and the Solar Charge Controller (Solar panel) together by connecting the MC4 connectors.





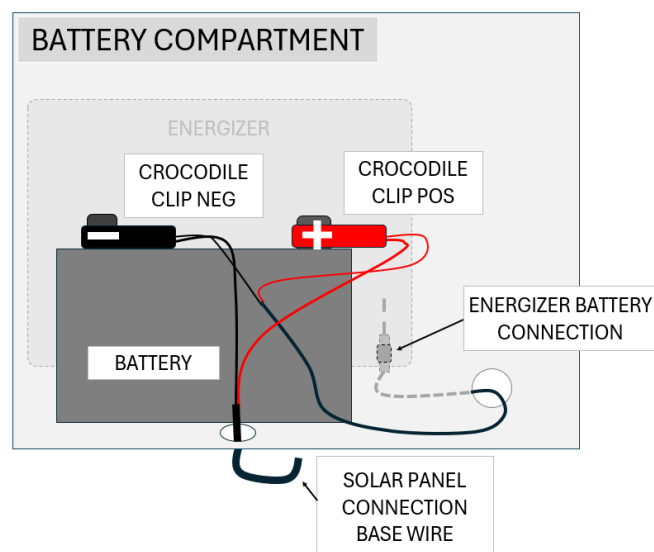
Then connect the wire terminals of the Gallagher Solar Connection Base Wire with the crocodile clips of the battery cable of the Energizer.

Inside the Crocodile clip there is a connection plate that will hold the wire terminal, use a flat screwdriver and slide the wire terminal as far as possible onto the connection plate.



**Pay special attention to the correct polarity (red on red / black on black!)**

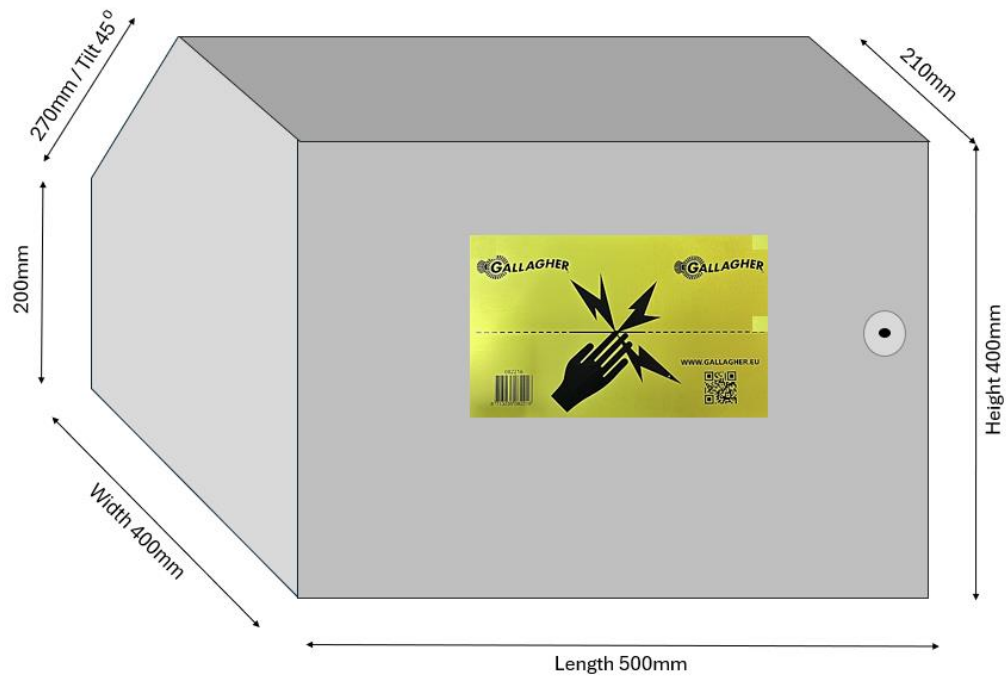
After the crocodile clips are correctly connected, they can be placed on the battery, the black crocodile clip on the MINUS (small) pole, the red crocodile clip on the PLUS (big) pole.



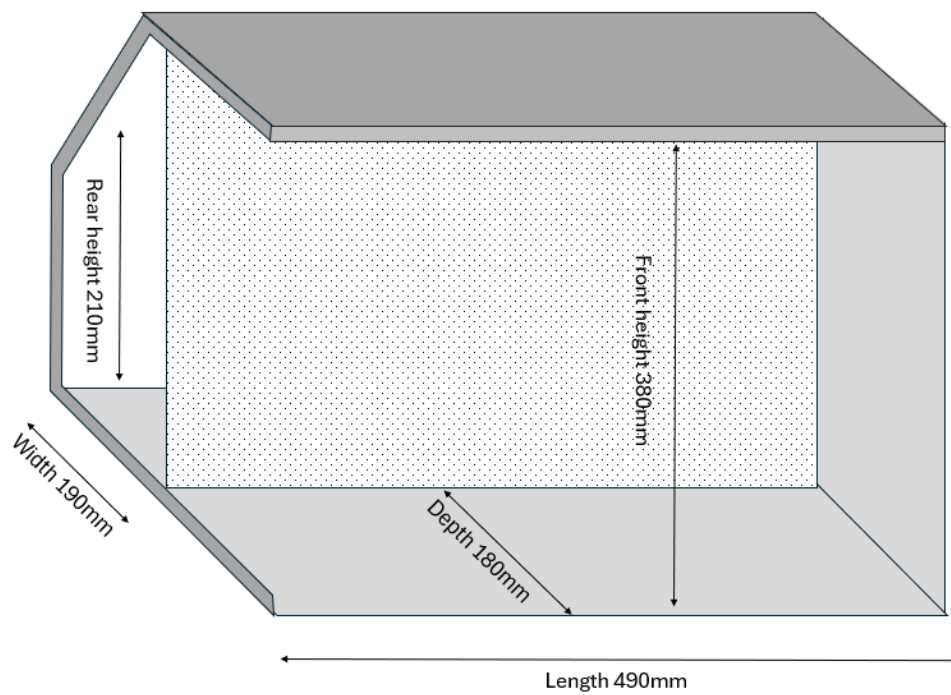
**NOTE,** If the PLUS is swapped with the MINUS, this can irreparably damage the regulator on the solar panel!

## Dimensions Vandal Proof Box

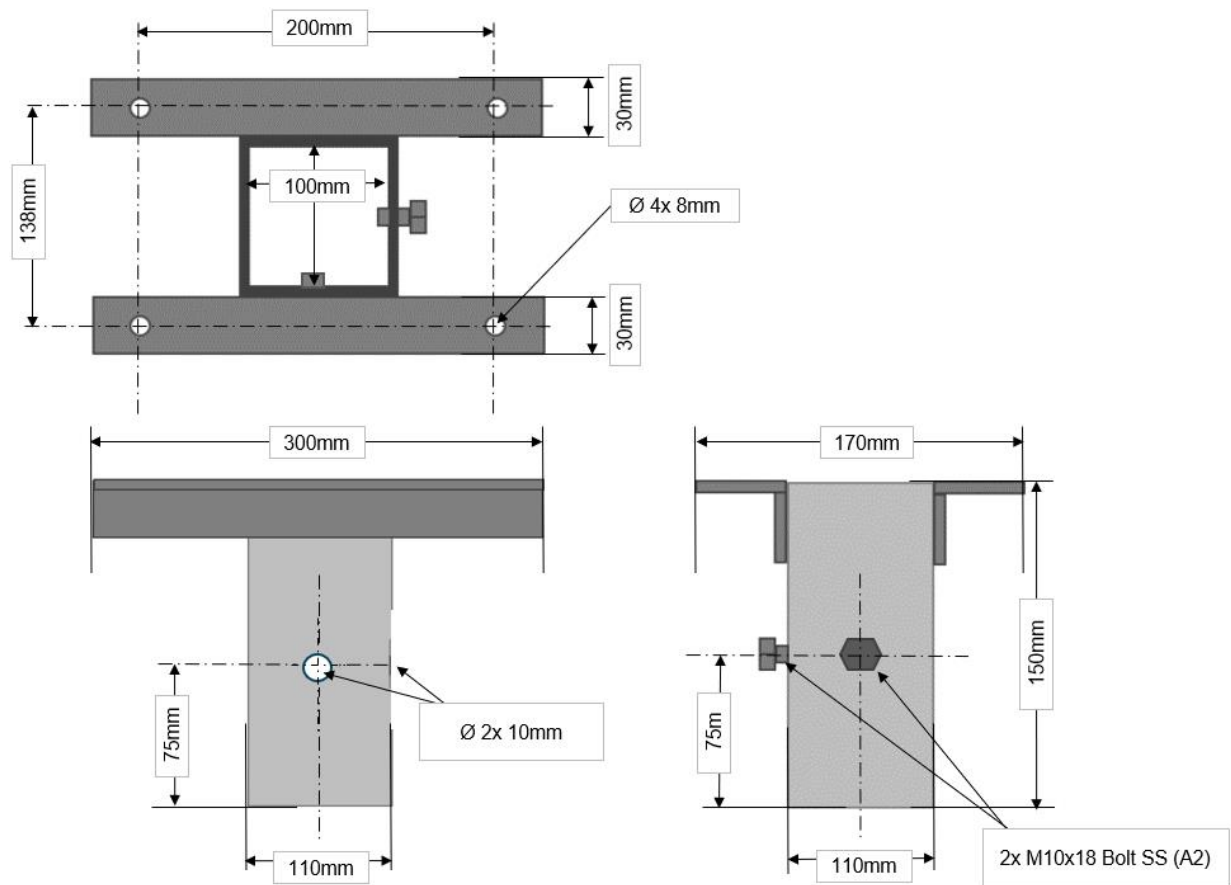
### Exterior dimensions (without foot)



### Interior dimensions



## Post holder dimensions



## Summery dimensions

## BOX Outside

Length 500 mm  
Width 400 mm  
Height 400 mm  
Height including post holder 590 mm  
Weight 16.2 Kg

## BOX Inside

### Box Front compartment

Length 490 mm  
Depth 180 mm  
Height 380 mm

### Box Battery compartment

Length 490 mm  
Width 190 mm  
Height 210 mm (usable height)

### Total Weight

Post holder weight 2.8 Kg  
Box + Post holder weight 19 Kg

## Gallagher parts that will fit the box

### Below parts will fit the box

Max. Pcs. box	Part No.	Energizers Product description	length	width	height
1	315362	MBS3000i	345	95	230
1	315331	MBS2800i	345	95	230
1	315348	MBS2000i	345	95	230
1	315317	MBS1800i	345	95	230
1	301310	MBS1000i	345	95	230
1	390314	MBS800	260	140	280
1	390307	MBS400	257	140	280
1	389318	MBS200	230	120	230
1	388328	MB300	200	105	220
1	388311	MB150	225	118	226
1	388304	B60	225	120	230

Max. Pcs. box	Part No.	Batteries Product description	length	width	height
1	086382	Battery 12V/100Ah Premium Turbo AGM	353	175	190
1	086399	Battery 12V/75Ah Premium Turbo AGM	278	175	190
2	086405	Battery 12V/60Ah Premium Turbo AGM	242	175	190
1	086351	Battery 12V/105Ah Premium LA	353	175	190
1	086368	Battery 12V/80Ah Premium LA	278	175	190
2	086375	Battery 12V/65Ah Premium LA	242	175	190

Max. Pcs. box	Part No.	Accessories Product description	length	width	height
1	567037	i Series Wi-Fi Gateway Controller V2.0	50	35	130
1	030337	Controller i Series	165	25	105
1	090402	Fence Control	150	80	30
2	060705	Cut out switch	120	100	230

Max. Pcs. box	Part No.	Solar equipment Product description	length	width	height
1	090693	Solar panel Mono AB 120W incl. regulator	1065	30	585
1	090686	Solar panel Mono AB 60W incl. regulator	850	30	400
1	090679	Solar panel Mono AB 30W incl. regulator	530	30	350
1	090808	Solar Panel Rail Kit	650	29	45,9
1	091454	Solar Connection Base Wire	850		

Available kits Product description	length	width	height	Weight
Vandal Proof Box V2.0	500	400	400	19,00
Solar box MBS1000i	500	400	400	56,75
Solar box MBS400	500	400	400	44,80
1x 091447 Spare Lock + 2 Keys + 2 Keyholders				

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