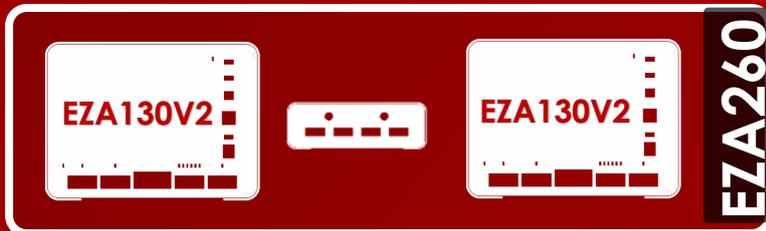


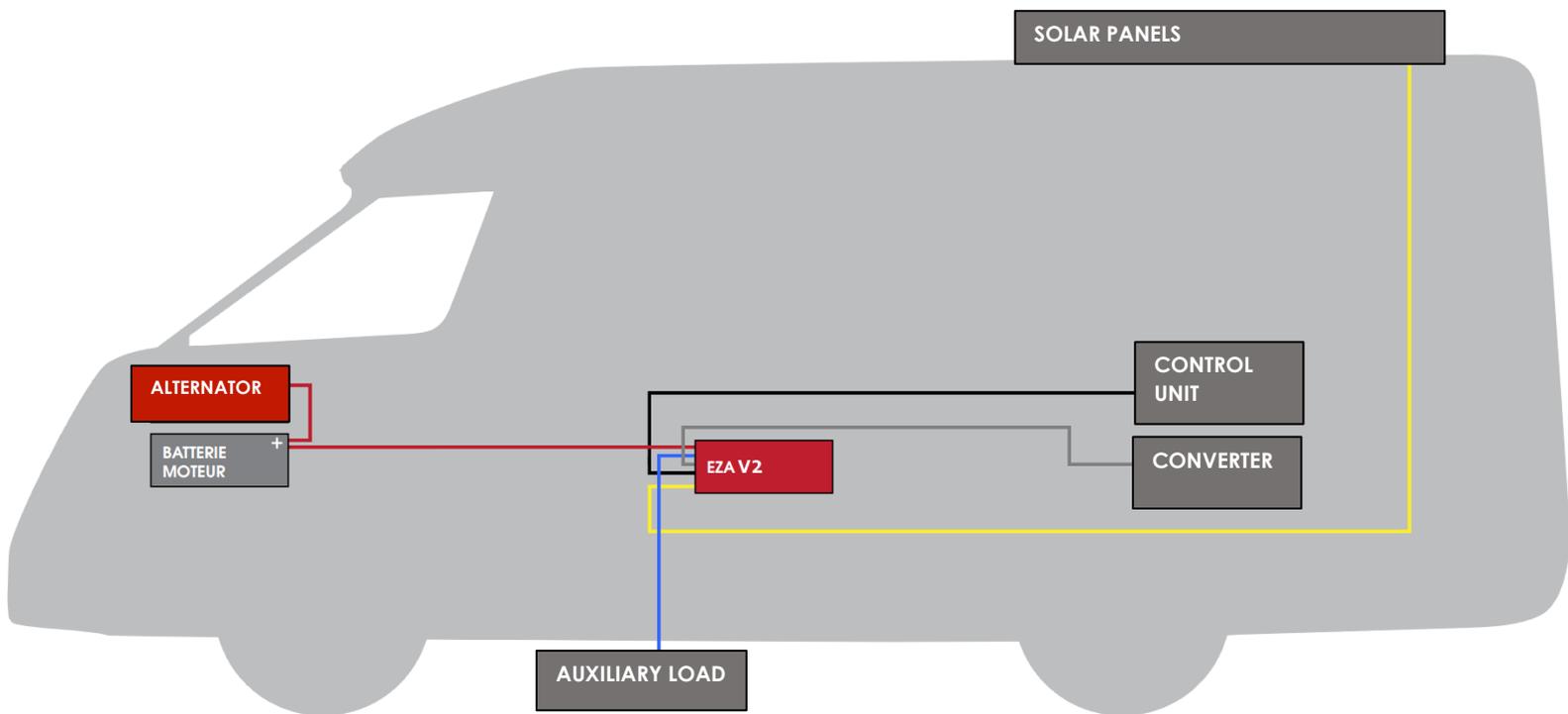
# Installation Guide

References **EZA80V2, EZA130V2, EZA130S**



Please read this guide carefully before installing, activating, and using the system: then give it to the end-user.

## Simplified installation diagram



### EZA App

**Check and view:** the **EZA App** is available for Android and iOS. To download it, go to <http://eza.fr/app.html> or type 'EZA App' into the Play Store.



**Synchronisation:** To learn how to use the **EZA App** to its full potential, please follow the synchronisation procedure described in the appendix of this installation guide



# Contents

- 1 Delivery contents
- 2 Explanation of symbols
- 3 Security notices
- 4 Correct usage
- 5 Details for connection
- 6 Installing the EZA 80Ah and EZA 130Ah
- 7 Before first use
-  **Inspecting the installation**
- 8 Connecting an auxiliary device
- 9 Switching off the EZA 80Ah and the EZA 130Ah V2
- 10 Cleaning the EZA 80Ah and the EZA 130Ah V2
- 11 Recycling
- 12 Terms and conditions of the guarantee
- 13 Appendix 1: directions for use and synchronisation procedure for the EZA application  
Appendix 2 : Installation procedure for EZA 260 V2  
Appendix 3 : Installation diagram for EZA 130 SLAVE
- 14 Technical features

Inspect the good installation of the EZA Power Pack



## **IMPORTANT**

**INSTALLATION MUST BE PERFORMED BY A SPECIALIST.**

**BEFORE INSTALLING AN EZA POWER PACK, CHECK THE FUNCTIONING OF THE ORIGINAL LEISURE BATTERY SYSTEM.**

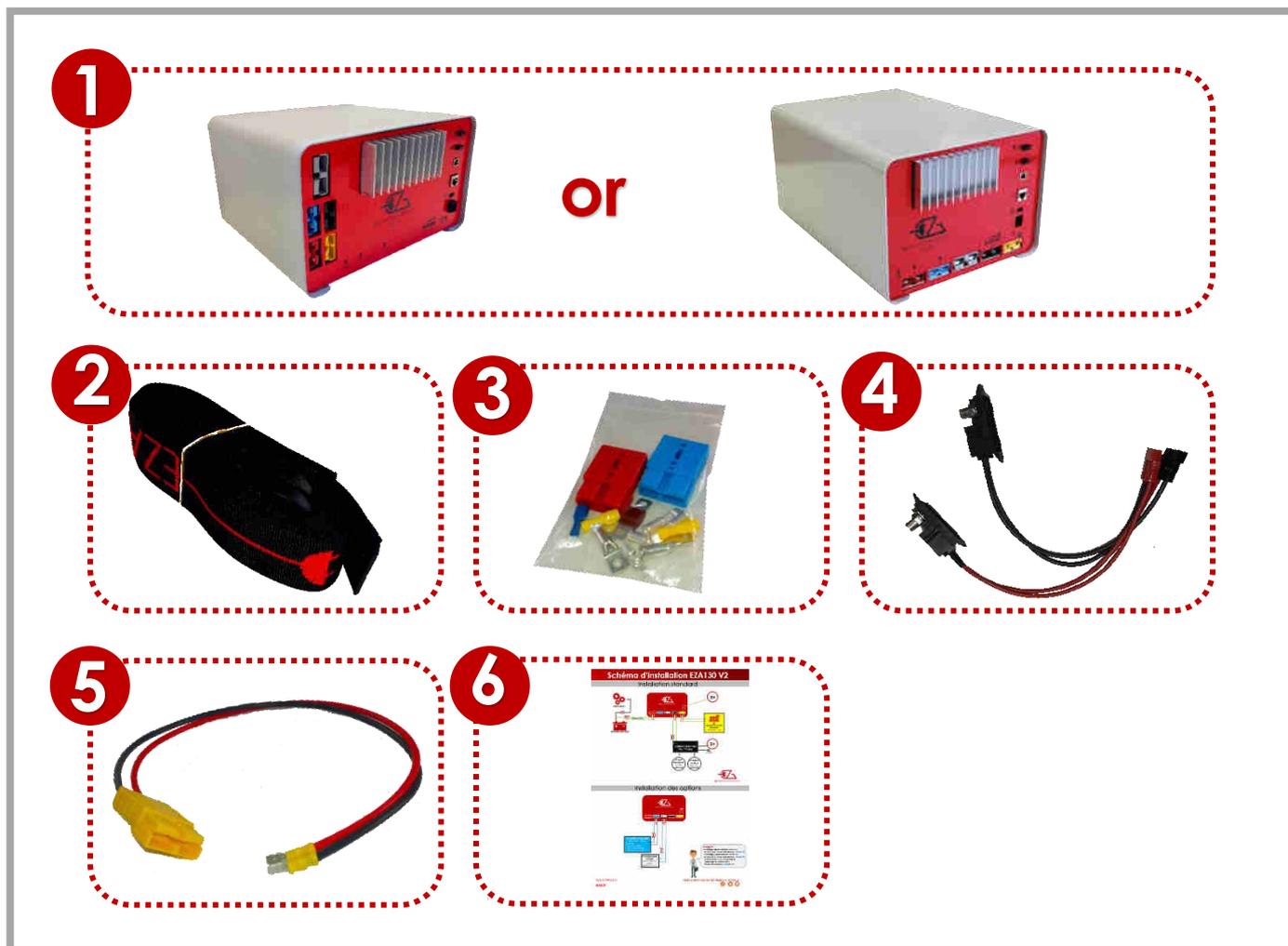
**ASSESS THE CONDITION OF THE ELECTRICAL WIRING.**

**CHECK:**

**THE ROUTING OF CONNECTIONS**

**LOCATION OF ALTERNATOR – BATTERIES – ELECTRIC BOARD – D+ – SOLAR PANEL, ETC.**

# 1- Delivery contents



Pos. in fig.	Description
--------------	-------------

1	1 EZA 80Ah or 130Ah power pack
2	2 attachment straps
3	1 screw and connector kit
4	1 EZA SMART CONNECT cable
5	1 solar panel or wind power unit connector cable
6	1 operating manual
7	1 connector cable for EZA power pack output - <b>NOT INCLUDED</b>
8	1 maintenance cable to be kept should you ever wish to replace the EZA power pack for conventional lead-acid batteries. For example, if you sell the vehicle and want to keep the EZA or if the EZA should develop a fault. - <b>NOT INCLUDED</b>

## NOT INCLUDED

For a « dedicated line » installation, order these 2 cables



## 2- Explanation of symbols



### **WARNING!**

**Security notices:** not following these notices could cause injuries or damage the material or the installation.

## 3- Security notices

**The manufacturer will not take any responsibility for damage in the following cases:**

- Errors made during assembly or connection
- Mechanical constraints or power surges which damage the equipment
- Modifications made to the product without explicit authorisation from the manufacturer
- Use which differs from that described in the guide and notices. When using electrical appliances, the following general security notices should be respected so as to avoid:
  - Electric shock
  - Fire
  - Injuries.
- Electrical appliances are not toys!  
Children are not capable of assessing potential hazards. Do not let children use electrical appliances without supervision. Watch children to make sure they do not play with the equipment.
- People (including children) who are not able to use this equipment in complete safety, whether due to physical, mental or sensory impairment, or due to lack of experience or knowledge, are not authorised to do so.
- Use the apparatus for the purpose for which it is intended.
- Do not modify or transform the apparatus.

- All maintenance and repairs must be performed by someone who is qualified and perfectly aware of the dangers and regulations relating to these procedures. Any poorly performed repair risks causing serious danger. If repairs are necessary, go to your seller (whose address should be on the warranty card).
- Only use the apparatus if the EZA 80Ah or EZA 130Ah and all connections are intact.
- Cut off electricity flow during any work on the apparatus
- Bear in mind the heat produced by the apparatus and keep a clear distance of 20 cm around it.
- Install the apparatus in a dry place which is sheltered from splashes of water.
- It is essential that the power pack is mounted the right way up: any other position is forbidden.
- Protect the apparatus from corrosive gases and from dirty or humid air.
- Fix the apparatus to the floor using supplied attachment straps and clips.

## **4- Correct usage**

The EZA 80Ah and 130Ah V2 are meant for on-board mobile use. They are equipped with several charging plugs according to the available sources of energy.

It is possible to attach equipment with a voltage of 12V, or a 12VCC/230VAC inverter with a maximum output of 1800W.

The EZA 80Ah and 130Ah V2 must not be used to start a vehicle's engine.

## 5- Details for connection

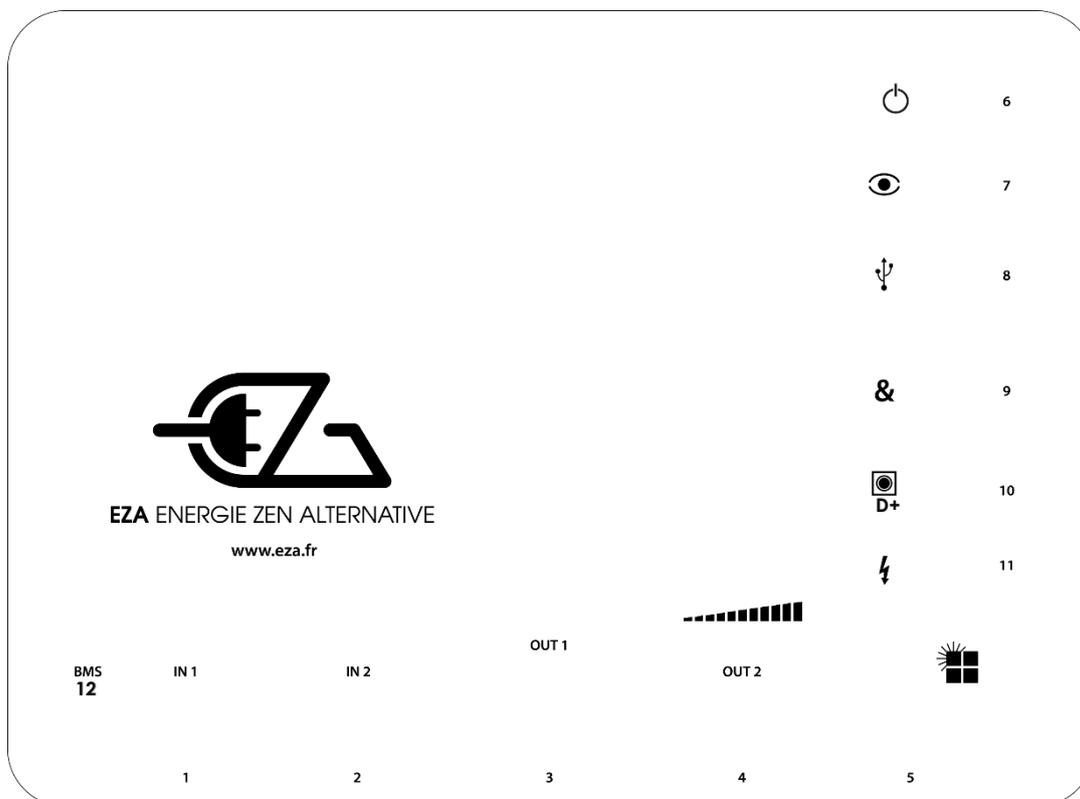
The EZA 80Ah and EZA 130Ah V2 are energy storage units equipped with a powerful Lithium-Iron-Phosphate (LiFePO<sub>4</sub>) cell, which allows you to power 12V DC or 230V AC electrical equipment using an inverter.

They can be directly connected through a vehicle's control unit using the provided specific cables.

In order to increase capacity, it is possible to connect:

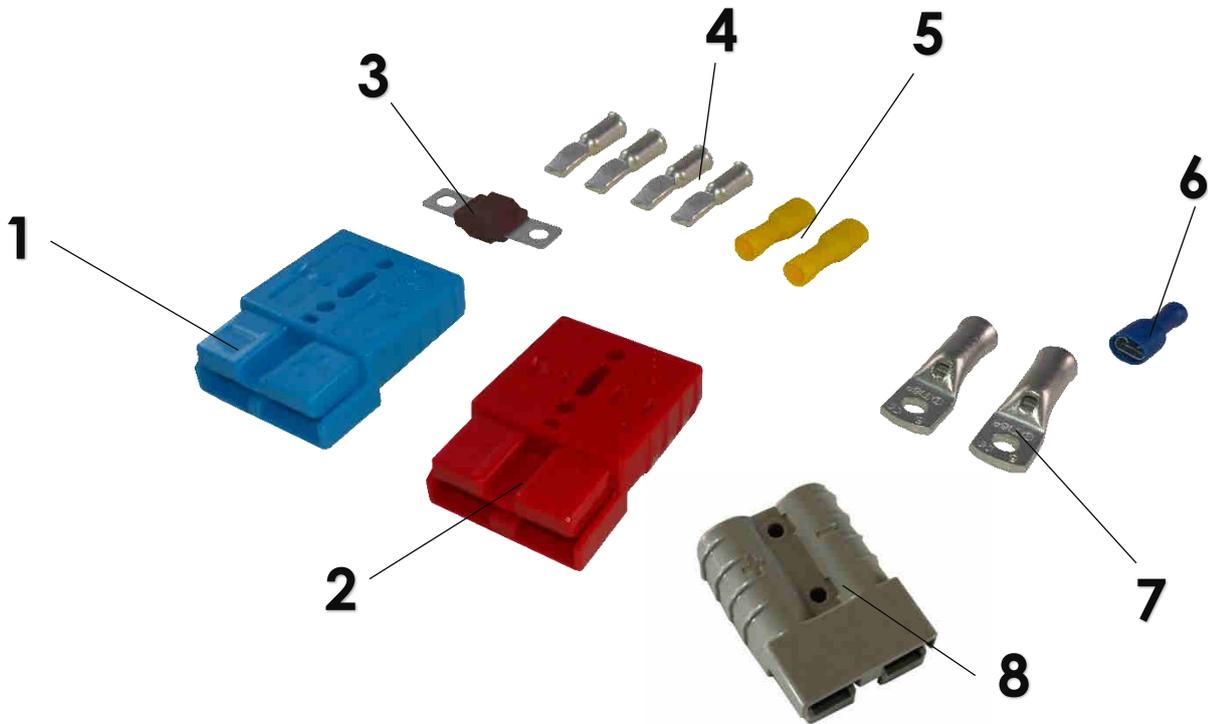
- One EZA 130 V2 ref. EZA130V2 with one EZA 130 Slave réf. EZA130S to obtain one **EZA 260S**
- 2 EZA 130 V2 ref EZA130V2 with a coupling box ref. COUPLAGE2 to obtain one **EZA 260**
- 2 EZA 130 V2 ref EZA130V2 with a coupling box ref. COUPLAGE2 and 2 EZA 130 Slave ref. EZA130S to obtain one **EZA 520S**

## Description of the connection panel



Pos. in fig.	Description
1	<b>Engine battery load line</b> connector
2	<b>Auxiliary load line</b> connector
3	<b>Inverter</b> connector
4	<b>Support</b> connector
5	<b>Solar panel or wind power unit load line</b> connector
6	<b>On/off button</b> to put in hibernation mode
7	<b>LED visualisation</b> button
8	<b>Maintenance</b> USB connector
9	<b>Battery coupling</b> connector
10	<b>D+</b> connector
11	<b>Control cable connector for 230V AC network</b> (for optional EZA controlled inverter)
12	<b>BMS – Reset of the Power Pack</b>

## Description of the supplied connectors



Pos. in fig.	Description
1	<b>1 BLUE Anderson socket (SB50B)</b> for auxiliary load connection
2	<b>1 RED Anderson socket (SB50R)</b> for engine battery connection (16 <sup>2</sup> cable)
3	<b>1 70A fuse</b> to be placed on the positive end of the cable linking the EZA power pack and the engine battery
4	<b>4 SB50 Anderson terminal lugs</b> for 16 <sup>2</sup> cable
5	<b>2 terminal lugs</b> for solar panel / wind power unit
6	<b>1 connection cable lug</b> for D+
7	<b>2 lugs</b> for 16 <sup>2</sup> cable
8	<b>1 GREY Anderson socket (SB120)</b> for inverter connection



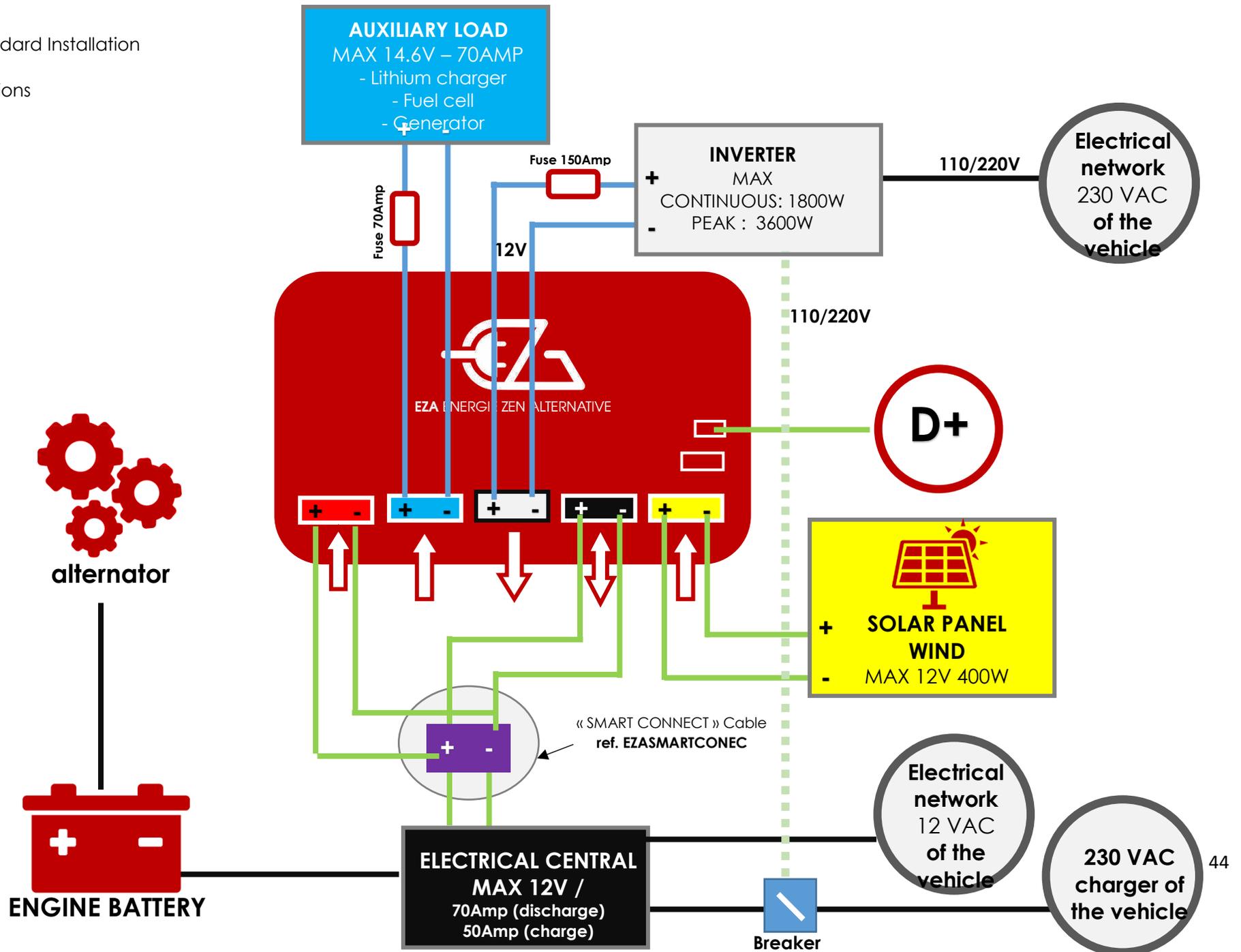
- The EZA 80Ah or 130Ah power pack must only be connected using the supplied connection cables.

# 6- EZA 80Ah and EZA 130Ah installation

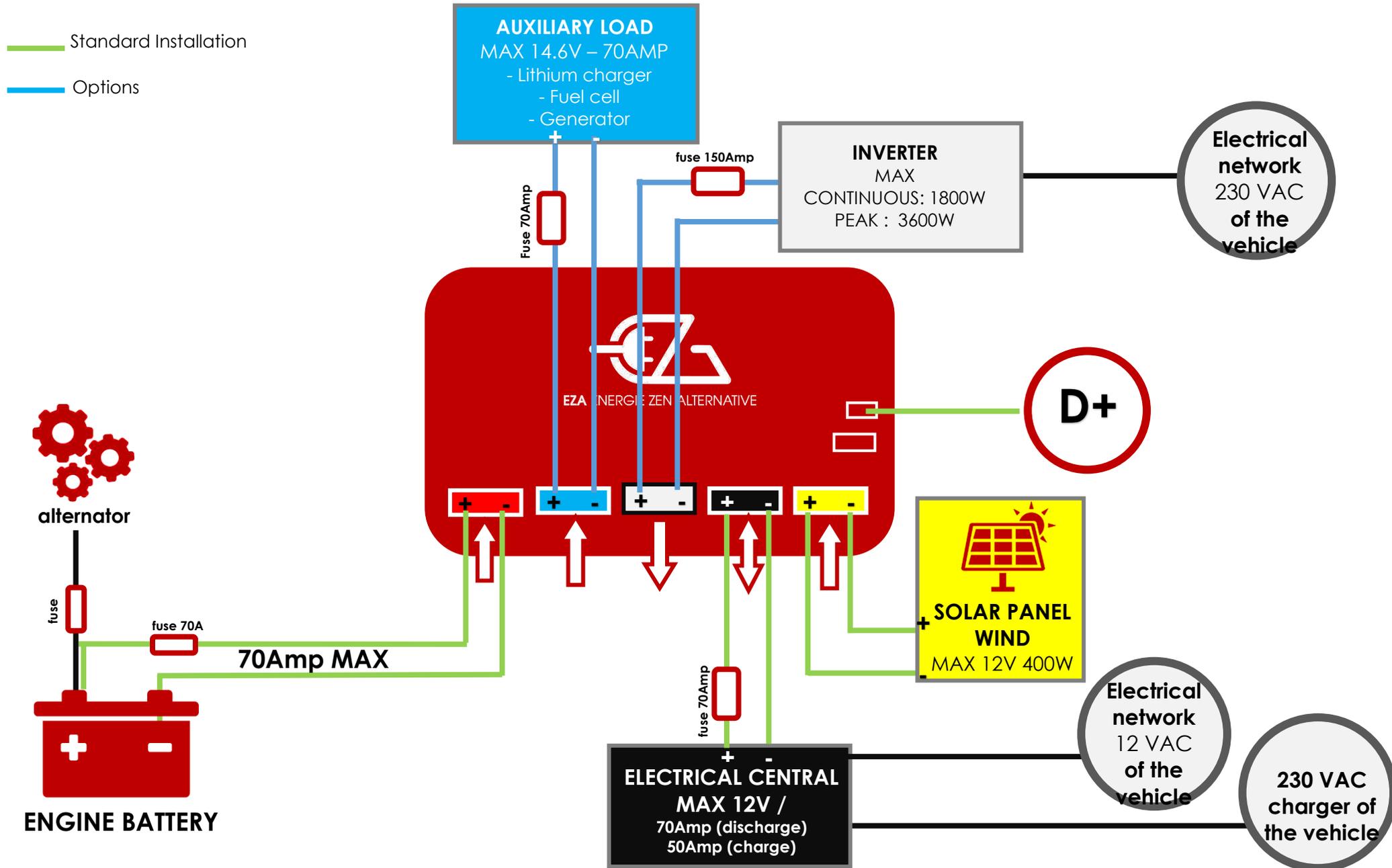
## « SMART CONNECT » Installation

Standard Installation

Options



«DEDICATED LINE» Installation



Please read the following instructions carefully before choosing the installation location:

- The EZA 80Ah and EZA 130Ah V2 must remain the right way up, on a flat and stable surface.
- The installation location must be protected from moisture and dust.
- The installation location must not be in an area containing flammable materials.
- The installation location must be well ventilated. If you are installing it in a small space, there must be enough room around the EZA to be able to pull out the Anderson sockets without too much difficulty with a few centimetres on either side.

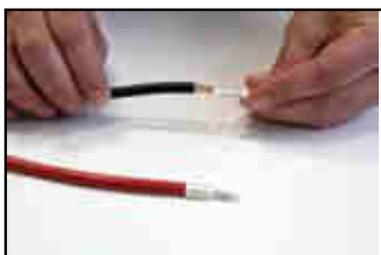
## 6.1- SMART CONNECT line – Use the SMART CONNECT cable (standard setup)

1/ Remove the lugs from the original (auxiliary) battery and connect them to the terminals of the SMART CONNECT cable, **respecting the polarities.**

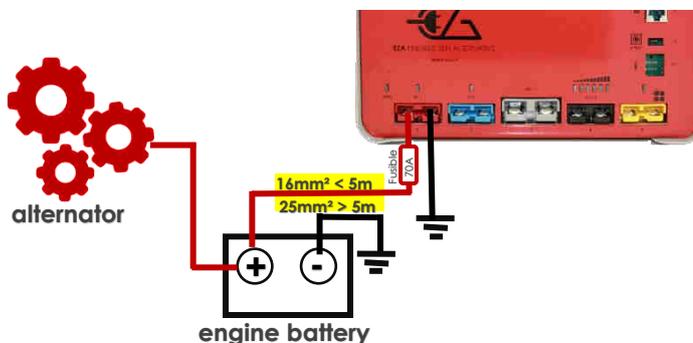
2/ Insert the Anderson jacks of the SMART CONNECT cable into the corresponding (color-coded) jacks of the battery. See SMART CONNECT installation diagram.

### 3/ GO TOPARAGRAPH 6.3

## 6.2- Connecting the fast dedicated charge line (1st red socket) – **VERIFY THE SETUP OF THE EZA POWER PACK**



1/ Attach the Anderson terminal lugs onto the 16<sup>2</sup> cables. Insert the lugs into the red Anderson socket **paying attention to the direction and the polarity.**



2/ Route the cable to the engine battery and the connector **paying attention to the polarity.**

3/ Attach the cable to the EZA power pack using the electrical connector



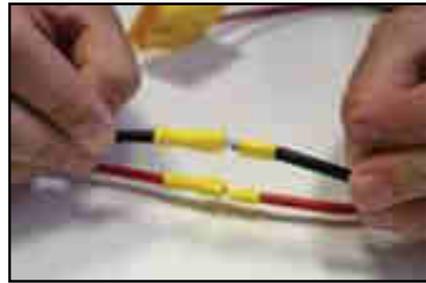
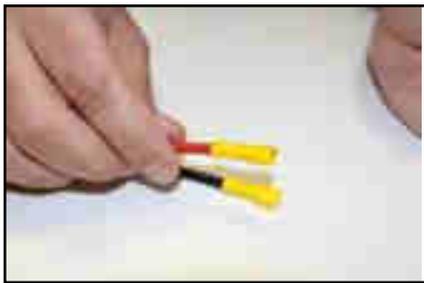
- If the distance between the EZA Power Pack and the engine battery requires a cable over 5 metres long, you must use a minimum 25<sup>2</sup> cable with an Anderson socket SB120R (CABLEZA25) and an ADAPTKIT to connect to the EZA Power Pack (included with the CABLEZA25).

### 6.3- Connecting the photovoltaic / wind power unit load line (yellow socket no.5)

- A specific socket is used to connect the solar panel or wind power unit. This socket is equipped with a special, high efficiency lithium battery regulator which can accept a maximum power of 400W.



- **Only connect devices which supply a voltage value between 18 and 22 Volts and a maximum current of 40A. Maximum allowed power: 400W.**
- **Make sure that no external solar panel regulator is connected to the solar panel. A specific high efficiency lithium regulator is integrated in the EZA power pack.**



1/ Identify the inlet for the solar panel / wind power unit and attach the lugs onto each end. Link the inlet of the solar panel(s) / wind power unit(s) directly to the connection kit.



2/ Connect the solar panel / wind power unit using the connection kit on the EZA power pack connection panel.

## 6.4- Connecting the 'supply' charge/discharge line (black socket no.4) in case of "dedicated line" installation. See paragraph 6.2



- Use the specific equipment meant for this
- Only connect devices which require a supply voltage of 12VCC and pay attention to polarity
- When connecting a 230/12V charger, check the voltage (14.6V MAX) and load curve of the charger before connection. Position the charger in Lithium or Gel mode. Otherwise, refer to the recommendations.

1



1/ Get the connection cable for EZA output

**CABLE MUST BE ORDERED – NOT INCLUDED**

2



2/ Get the cables from the original service battery back and attach the adapted lugs to the section of cable.

3



3/ Connect the attached cables to the fuse holder **paying attention to polarity** using lugs and nuts. Fold the fuse holder back shut.

4



4/ Connect the kit to the EZA power pack with the black connector.

**Please respect the maximum authorised power and voltage for this charge/discharge line: 70A and 12V**

## 6.5- Connecting the D+



Connect an information cable which indicates the presence of the **D+** to connector no.10 of the EZA power pack (attention: **do not confuse this with the permanent +** ).

WARNING :

- Do not connect to the +APC or Permanent+
- Verify EZA is well connected to D+ of the carrier (not to the D+ powered by the auxiliary battery) by disconnecting the black plug which supply the electrical central.

### 6.5- Synchronisation of the EZA application

The EZA application is available for free download from the eza.fr website or in Google Play Store. This application allows you to:

- Check the EZA power pack is properly installed and working well.
- Have an image of all the information necessary to use the V2 EZA power pack. This information is transmitted instantly to the application.



- To best synchronise the EZA power pack with the EZA application and for the application to work best, it is vital to consult the directions for use provided for this purpose (in the appendix).

The **directions for use** and the description of the synchronisation process for the **EZA App** are located in the appendix of this installation guide.

## 7- After installation and before first use



- Check the functioning of the installation.
- An initial full charge is necessary to synchronise the EZA power pack with the EZA application. This charge must reach a voltage of 14.2V.

# CHECKLIST: Inspecting the installation (1/3)

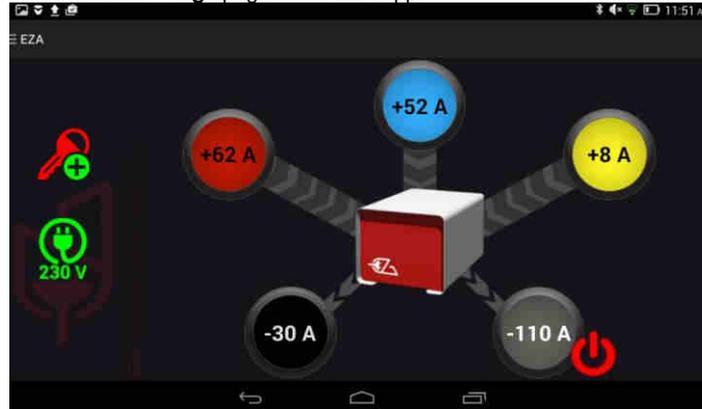
ANNEX 5 (page 1/3)

Once you have **completed each stage in the installation guide** (available from [eza.fr](http://eza.fr)) for the EZA 80Ah V2 and 130Ah V2, this checklist will help you to verify that the EZA V2 is correctly installed **before it is handed over to the end user**. It is important to verify each point to ensure that the EZA V2 is correctly installed and operating correctly so that the end user can get off to a good start with the product. If any additional support is required, or to address any of the following issue(s), don't hesitate to contact our technical support team on **+33 (0)4.72.01.89.47** or by e-mail at **contact@eza.fr**



## 1. Check that the EZA Battery is correctly installed.

- Go to the **Usage** page in the EZA app.



- Ensure that all input and output feeds from the EZA are working correctly:

→ Turn on the vehicle's engine and ensure that:

- The  icon located on the left-hand side of the window, indicating that the D+ of the vehicle is correctly connected to the EZA, is visible.
- That a value is shown in the red circle  when the engine is running, representing the charging level of the engine.

→ The value shown in the blue circle  represents the **amount of charge from any additional energy sources** (optional).

→ The value shown in the yellow circle  represents the **amount of charge from any solar panels or wind turbines**.

→ The value shown in the black circle  represents the **charge from the original vehicle alternator and the 12V charge from the cell**. It is therefore equal to the charge from the vehicle's original alternator less the amount consumed by the cell.

- **Turn off all 12V power in the vehicle, connect the vehicle to the 220V power supply**, and ensure that the value is positive and, if the battery is not fully charged, that the value shown is equal to the output of the vehicle's original alternator.
- **Disconnect the 220V power supply and turn on as many items to consume power via the cell**. Ensure that the value shown is negative.

→ The value shown in the grey circle  represents the discharge from the inverter if one is included in the installation.

- **Turn the inverter output on and off directly using the EZA app with the switch located to the left of the grey circle.**

# CHECKLIST: Inspecting the installation (2/3)

ANNEX 5 (page 2/3)

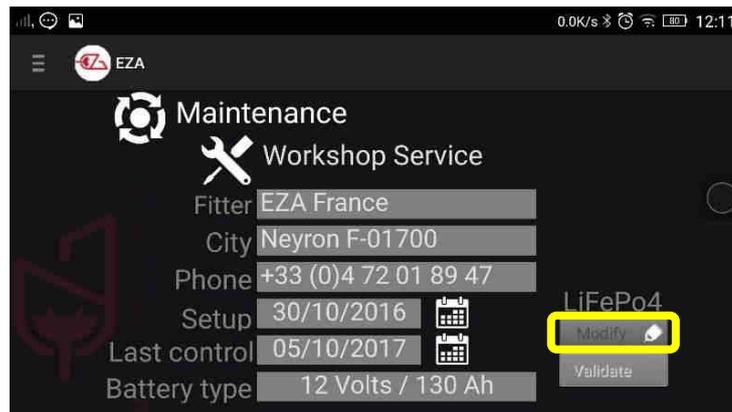


- Check to make sure that you hear a click in each case to indicate when the inverter output is opened or closed. If an inverter is indeed connected, a negative value should appear, representing the power consumed by the converter at idle.
- You can also connect a 220V device to confirm fluctuations in this value.

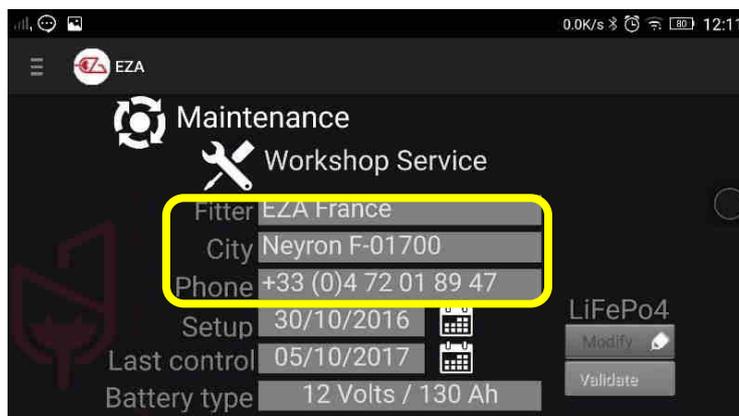
## 2. Check that the date and time settings of the device (smartphone or tablet) on which the EZA app is installed are correct.

## 3. Save the installer's contact details, the installation date, and the date of the latest inspection of the EZA POWER PACK in the app.

- Go to the "Maintenance" page.
- Select the "Workshop Inspection" icon:  in the bottom right-hand corner of your screen.
- Enter the password provided by EZA that is reserved for installers (if you don't have this password, contact us by e-mail at [contact@eza.fr](mailto:contact@eza.fr) or call us on +33 (0)4.72.01.89.47).
- Click on the "Modify" button.

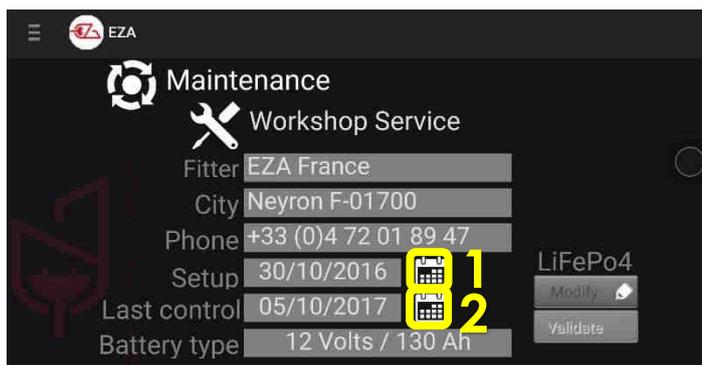


- Replace the content of the "Installer," "Town" and "Phone Number" fields with your own contact details. Use the keyboard that appears when you select each field to enter the data.

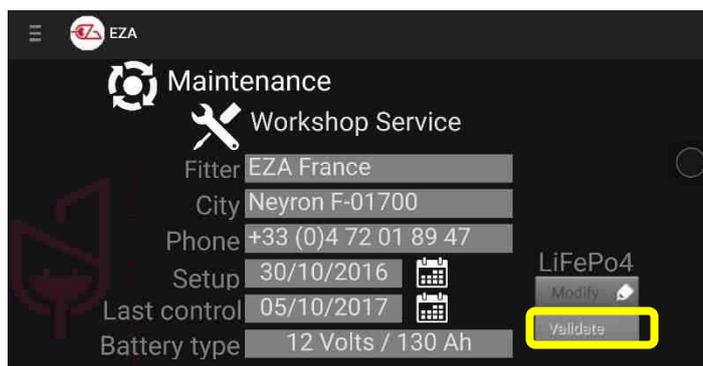


- Then select the calendar icon to the right of the installation date, then repeat with the date of the last inspection.

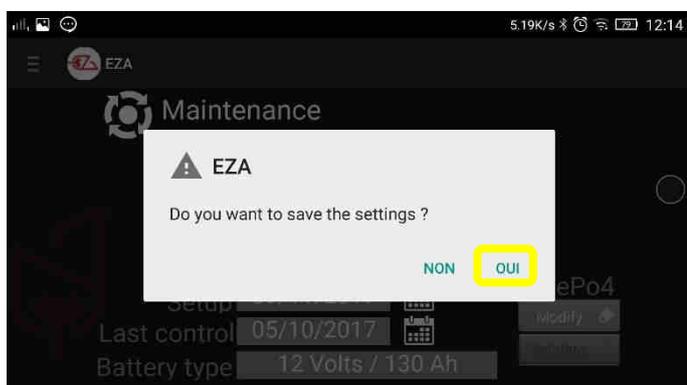
# CHECKLIST: Inspecting the installation (3/3)



- The installation dates and the latest inspection are correctly updated.
- Then select **"Confirm"** at the bottom right-hand corner of the screen to save the settings.



- Select **"Yes"** to confirm that you want to save the settings.



- A **confirmation message will appear**. You can now return to the tab of your choice by using the application menu.

## 8- Connecting an auxiliary device (OPTIONS)

### 8.1- Connecting an inverter

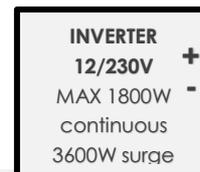
Connect the inverter to the **grey no.3 socket** using an **Anderson SB120G socket**. Special cabling is optionally available (ref. CABLECONV).

Follow the installation instructions opposite.

**Please respect the maximum power allowed for this discharge line: 1800W continuous and 3600W surge.**



We suggest a 1500W or 2500W EZA inverter managed by the EZA app (ref. **MODPILCONV** or **ECB25-12**). There is a specific installation process, you can find the installation diagram on [eza.fr](http://eza.fr)

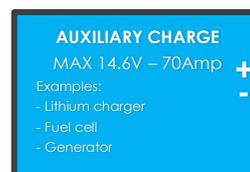


### 8.2- Attach an auxiliary charger (lithium charger, fuel cell, power generator, etc.)

Connect the charger to the **blue no.2 socket** using an **Anderson SB50B socket** (included with the connectors).

Follow the installation instructions shown opposite.

**Please respect the maximum allowed power and voltage for this charge line: 70A and 14.6V.**



### 8.3- Connecting the engine battery recharge cable



1. Disconnect the red cable from the EZA power pack and connect it to the red socket on the 'engine battery recharge cable'.
2. Disconnect the black socket from the EZA power pack and connect the black socket from the 'engine battery recharge cable' to the black socket on the EZA power pack.
3. Let the engine battery charge for 10 to 15 min.
4. **WARNING: don't start the engine with the 'engine battery recharge cable' connected.**
5. Disconnect the 'engine battery recharge cable' and reconnect the socket as it was initially (before point no.1).
6. Start the engine.

## 9- Switching off the EZA 80Ah and the EZA 130Ah

To disconnect the EZA completely:

- ✓ Make sure the EZA charge level is over 50%
- ✓ Turn off the power switch
- ✓ Disconnect the connections

The EZA power pack is now disconnected. Its discharge to empty rate is 5% /year.

## 10- Cleaning the EZA 80Ah and the EZA 130Ah



- Do not use any sharp or hard object nor any detergent for cleaning. This could damage the product.

- Clean the product with a damp cloth.

## 11- Recycling the EZA 80Ah and the EZA 130Ah

Used batteries are not household waste.

Take faulty or used batteries back to the seller or to a collection centre.

The LiFePO<sub>4</sub> power cells are 100% recyclable.

## **12- TERMS AND CONDITIONS OF GUARANTEE**

### **5. DURATION OF THE GUARANTEE**

EZA (or LAVI) agrees to a 36 month guarantee for EZA 80, 130, 260 with the possibility of extending this guarantee to 60 months. The limited guarantee is effective from the billing date and after registration with LAVI, at latest 10 days after billing (see the guarantee card).

### **6. FIELD OF APPLICATION**

The guarantee is granted only to individuals and is not applicable in the field of industrial use or the mishandling of the device. This limited guarantee is applicable for: any manufacturing fault or defect from our production department which leads to the improper functioning of the EZA in normal conditions of use; for any abnormal deterioration of our equipment, in normal conditions of installation, storage and use.

### **7. FIELD OF EXCLUSION**

Any use, defect or improper functioning which is caused by not respecting the installation notices and directions for use are excluded from the guarantee, in particular: uses which contradict the instructions; damage caused by the spill of various products (water, oil, etc....) or linked to specific climatic conditions (ice, floods, etc....); damage linked to any act of vandalism, impact or accident; in the case where the device has been opened; in the case where the device has been modified; in the case where annual check requirements have not been respected.

### **8. GUARANTEE FIELD**

This guarantee covers the defects described in paragraph 2 of the present terms and conditions, after the sales contract has been signed by the installer and the user. EZA reserves the right to choose how to fix the stated defects, whether through reparation or through replacing the device. EZA reserves the right to use exchange pieces which are recycled and in working use in the framework of repairs. In the case of intervention on the device and after repairs have been performed, the guarantee period on the repaired or exchanged parts does not reset to zero. It continues to run until the expiry date of the existing guarantee.

This guarantee does not give the right to extra claims, especially not to compensation, damages or interest for the buyer or third parties. The guarantee does not cover fees that may be incurred due to difficult device installation conditions (for example disassembling items or pieces of the body), nor damages that may be caused by the installer.

## **7. GUARANTEE CLAIMS**

In the case of anomalies you should contact the EZA aftersales service for a first diagnosis. Please indicate the nature of the defect, the model of the device as well as the serial number. So as to avoid damage in transit, the device should only be sent with the agreement of the EZA aftersales service. Before sending, it is important to incorporate the necessary packaging recommendations given by the EZA aftersales service or the sender will be held responsible for any possible damages linked to transportation. If the device's return seems necessary, the seller (LAVI customer) must be responsible for the device's return and will be held responsible for any potential damage linked to transportation. In the case of sending the device to the manufacturer, the device should be sent under the ordinary system. You should attach proof of purchase to the delivery which shows the date and place of purchase in the form of a copy of the original invoice which acts as proof of the guarantee. If necessary the invoice for guarantee extension should also be attached. In the case of a guarantee, the factory covers the fees and transport/delivery/return. If the damages are not covered by the guarantee, the manufacturer will warn the customer and indicate the reparation fees that he is not obliged to accept. In this case, the delivery fees will also be the customer's responsibility.

# EZA Application

## How to use

ANNEX N°1 (1/5)



Attention: before starting the EZA app, make sure that your EZA power pack is on. The 'ON' light on the EZA power pack should be green. **To download the app on your Android device, go to eza.fr or type 'EZA App' into the Play Store**

## 1. Start

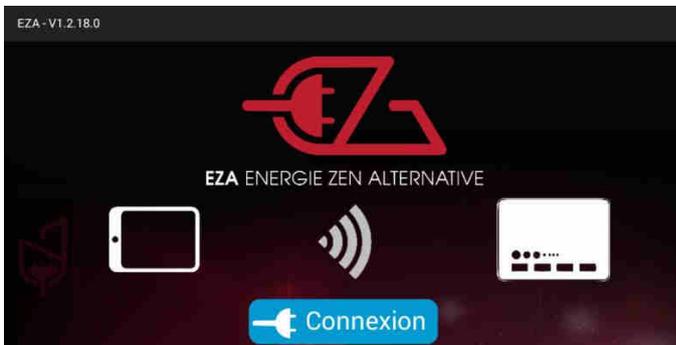
### 1.1. Launching the application



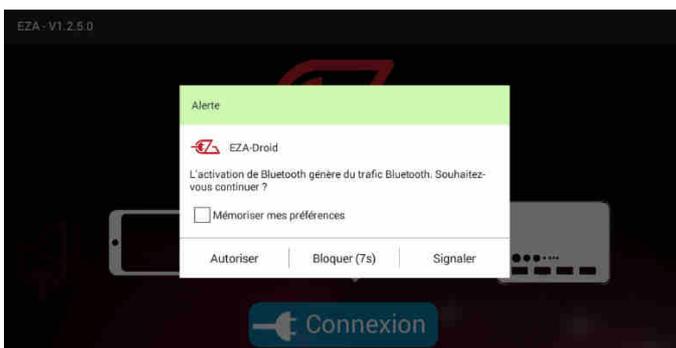
To open the EZA application, start by pressing the '**EZA-droid**' icon in the list of applications on your tablet or smartphone.

### 1.2. Bluetooth linking process

When starting the application, a connection page appears. This page will allow you to synchronise your smartphone/tablet with your EZA power pack.



Press the '**connection**' button located in the middle of this page.



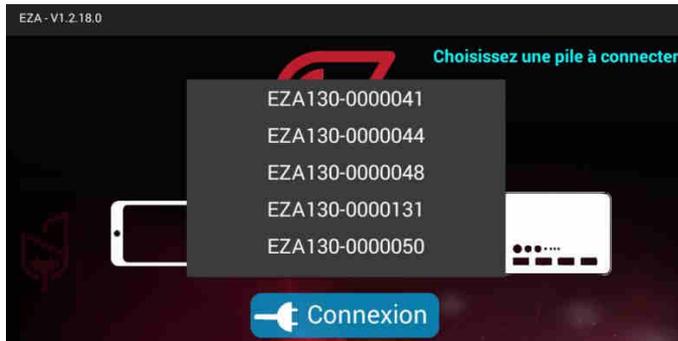
A warning message may appear if Bluetooth is not already activated on your device.

Press '**allow**' to allow your smartphone or tablet to connect to your EZA power pack through Bluetooth.

# EZA Application

## Directions for use

ANNEX N°1 (2/5)



If several EZA batteries are close to your smartphone or tablet, the list of available EZA batteries will appear. Press the number of your EZA power pack (Bluetooth number – see picture on the bottom of this page). You can find this number on a sticker on the front of your EZA power pack.



A window will appear. Press 'connect'.



A new page will appear asking you for an access code. This access code is available on the front of your EZA power pack. The code can be found on the bottom right of the sticker on the front of the EZA power pack. It will start with A. Type this code then press 'confirm'



Example:



Front of the EZA

# EZA Application

## Directions for use

ANNEX N°1 (3/5)

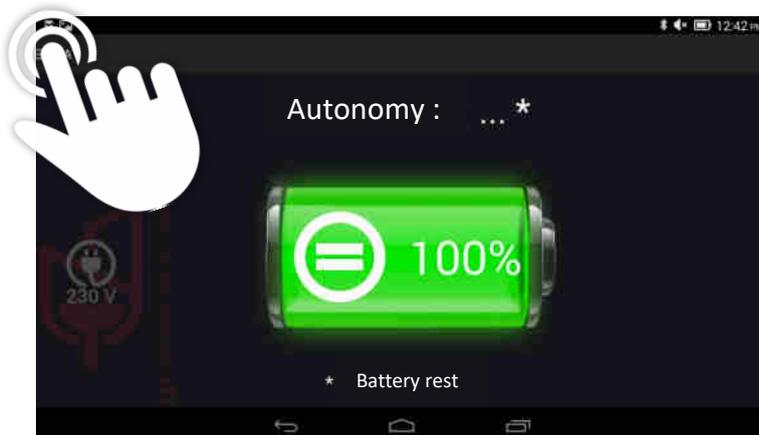


Your device is now associated with your EZA power pack. **Fully charge the EZA power pack** to synchronise it and to then be able to see its charging state on the application.

**This first full charge must reach a voltage of 14.2V. We recommend using a special lithium battery charger or to drive a sufficiently long time.**

## 3. Use

### 3.1. Menu

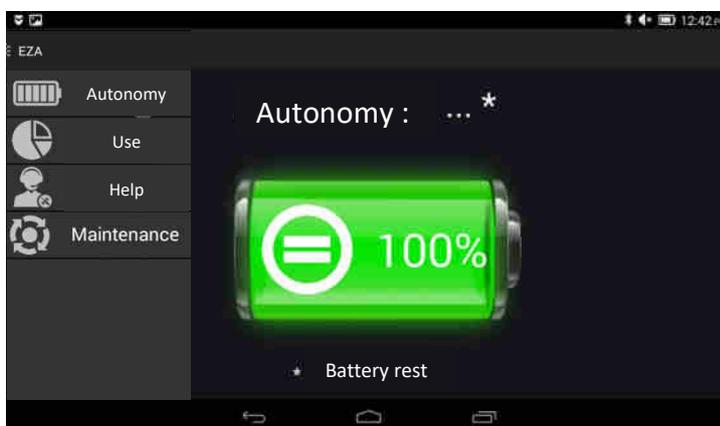


After this first full charge is complete, you'll have access to the 'battery life' page which tells you about the charge level of your EZA power pack.

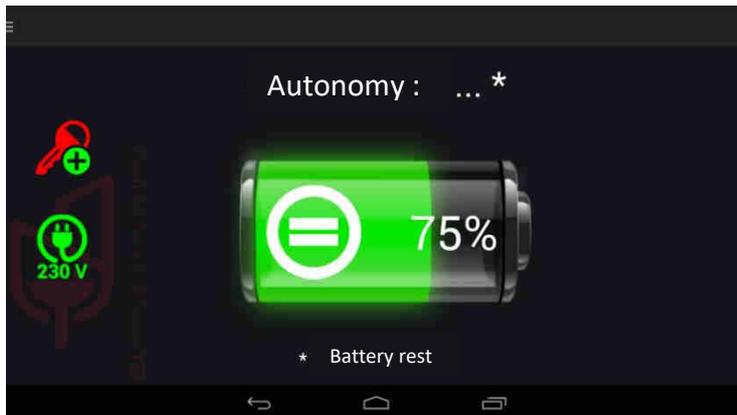
**Pressing on the menu icon: ≡ will make the menu appear/disappear.**

This menu gives you access to all of the functions offered by the application:

- An image of the remaining **EZA power pack life** on the page 'battery life'.
- A real time image of the **changes in charge or discharge of your EZA power pack** on the page 'use'.
- Information about the **use** of your EZA power pack.
- **Assistance** information in the case of a problem.
- **Maintenance information** for your power pack.



### 3.2. Functions



**Battery life page:** this page allows you to find out the charge level of your EZA power pack. You will also find an estimation of your EZA's remaining period of use (only if there is consumption)

The two icons on the left part of the screen show:

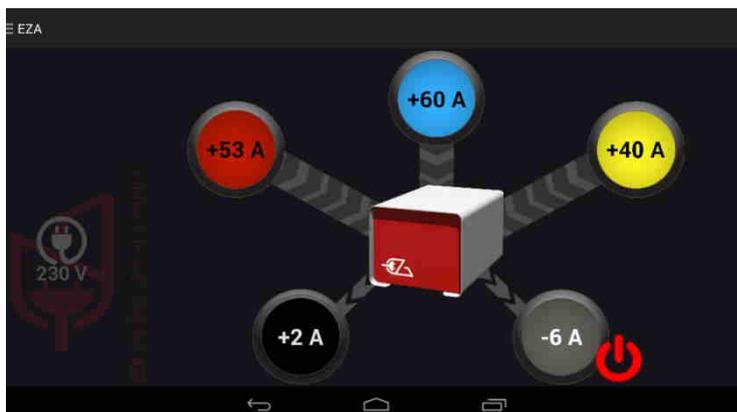


The presence of D+ on your installation

**Make sure this icon is activated to allow your EZA power pack to charge via the engine battery when starting the car! If the icon is not visible, the connection between the EZA power pack and the D+ has not been properly installed, contact your installer.**



The presence of 230V on your installation *(This information is only visible with an EZA converter ref MODPILCONV and a M040 cable linking the converter to the EZA)*



**Use page:** this page lets you see the real time information on the charge and discharge of your EZA power pack. Each change is represented by a colour, identical to that of the socket on the front of your EZA power pack.

- Red: charge via engine battery
- Blue: charge via an auxiliary charger (optional)
- Yellow: charge via solar panel or wind power unit
- Black: supply charge and discharge
- Grey: inverter discharge (optional)

# EZA Application

## Directions for use

ANNEX N°1 (5/5)

### 3.2. Functions



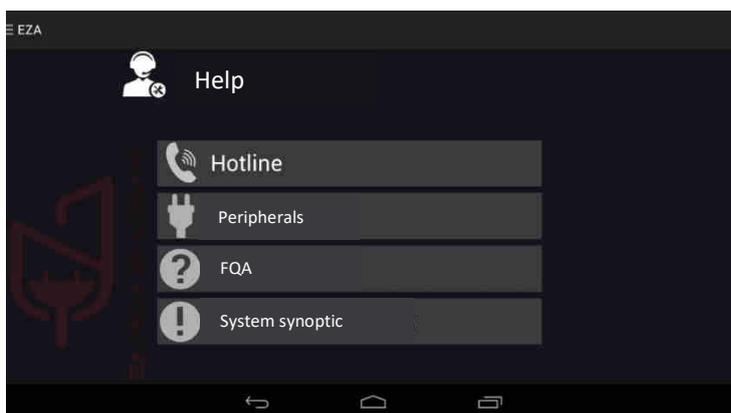
**History page:** this page lets you see the history of charge and discharge for each of the changes shown on the 'use' page. To access this page, press on the coloured circle for the incoming/outgoing energy that you want to analyse.



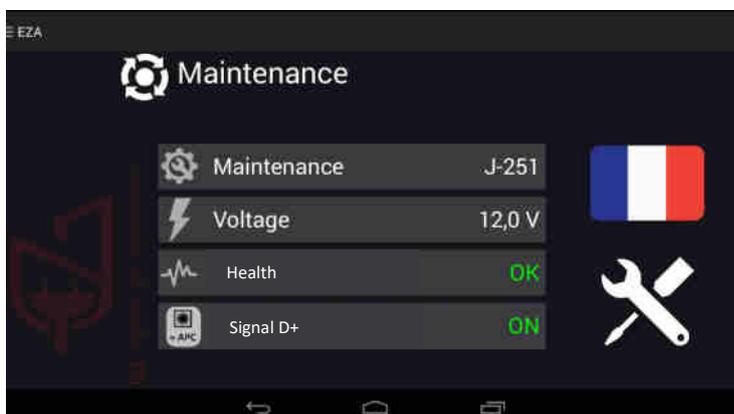
This icon allows you to look at your data over 1 hour or 24 hours.



This icon allows you to update your data.



**Help page:** this page holds all the useful information that you may need in the case of a technical problem or question. Press a button in the sub-menu to see the content.



**Maintenance page:** this page allows you to manage the maintenance of your battery and to access the adjustment controls on your application.

You can see:

- The approximate time period until your next EZA power pack inspection
- The voltage of your installation
- The health of your EZA power pack
- The presence of the D+ signal

You can change the default language of your application. To do so, click on the flag.



The 'workshop intervention' icon is for the installer of your EZA. This page will allow them to see the information relating to a health check on your EZA.

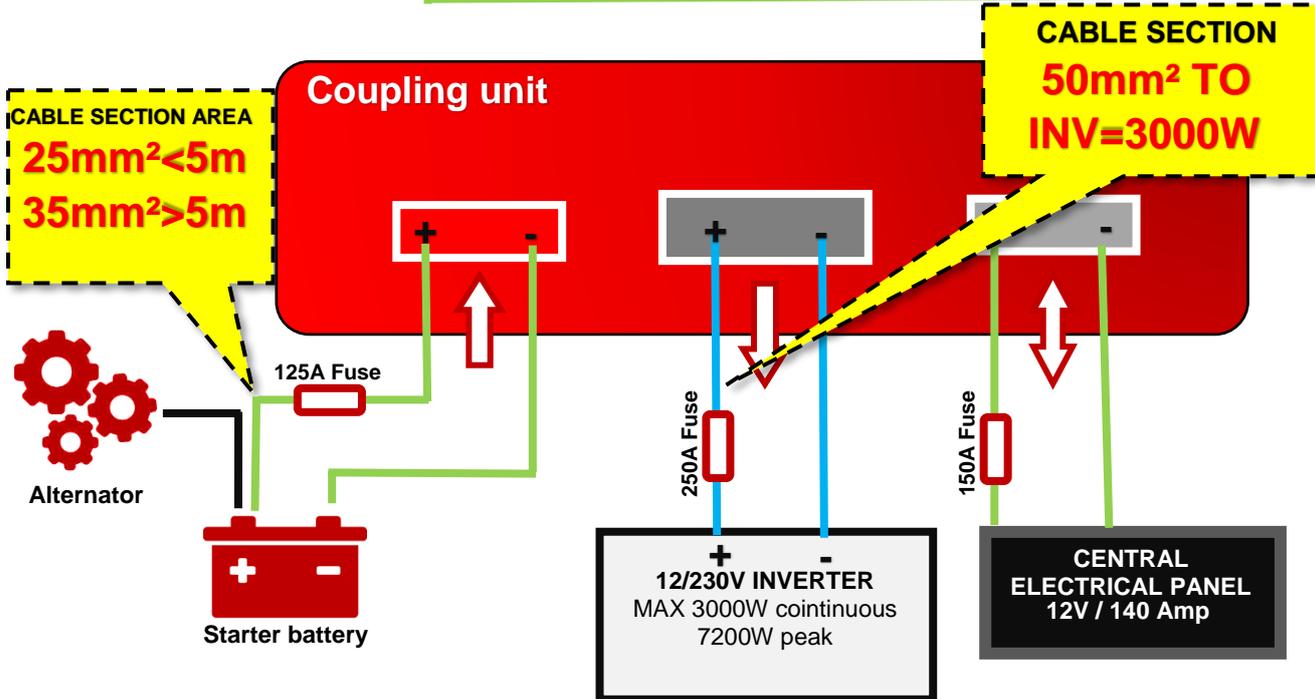
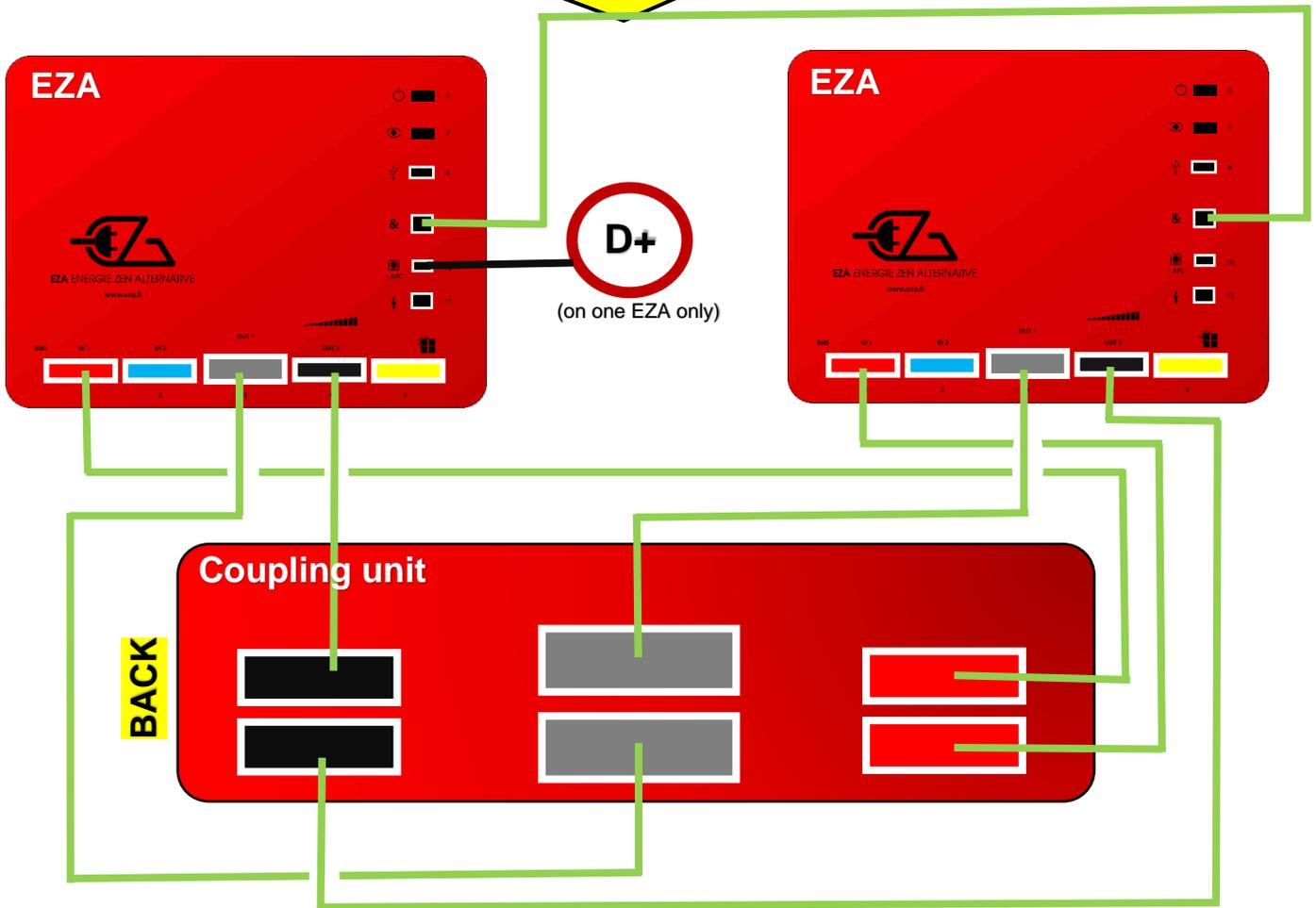
# Installation Diagram

## EZA 260 V2

### DEDICATED LINE ONLY

 Ensure that you follow the installation procedure described below before attaching this cable

 Standard installation  
 Options



# Installation and setup procedure (1/2)



**IT IS VITAL THAT YOU FOLLOW THIS PROCEDURE EXACTLY.** Once you have read through these instructions once, take a look at the installation diagram for the EZA 260 V2 and follow the fitting instructions as described, taking into account the requirements set out in this document. You can download the EZA 260 V2 installation diagram from the eza.fr website in the “Downloads” section, then select “Datasheet.”

## REMINDER:



1 EZA 130Ah

+



1 EZA 130Ah

+

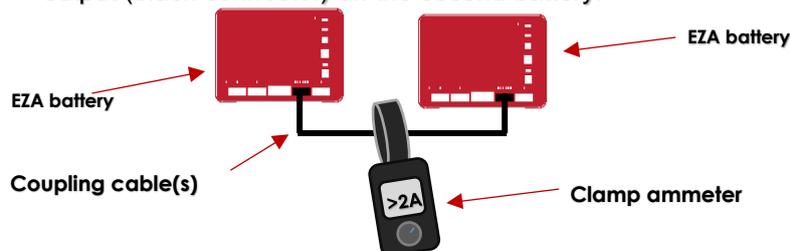


1 Coupling unit

=EZA 260Ah

## 1. BEFORE plugging in

**B- Balancing:** Before plugging the two EZA 130 into each other using the coupling unit, you must ensure that the two batteries are balanced. To do this, turn on the two EZA 130 and use the coupling cable(s) to connect the central electrical output (black connector) on the first battery with the central electrical output (black connector) on the second battery.



- Now read the balancing current using the **clamp ammeter**.
- Wait until the balancing current falls below **2A**, then move on to the next stage

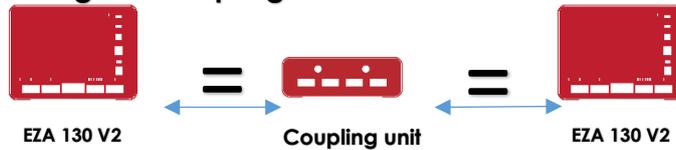
### B – Initiating communications with the EZA switched on

- 1 – Pair the first EZA with the app (see the installation guide) and go to “Usage.”
- 2 – Ensure that the inverter output is in the “OFF” position: **a red switch symbol must be shown** to the right of the grey circle: . If this switch symbol is green, press the switch to turn off the inverter, then exit the app.
- 3 – Pair the second EZA with the app (see the installation guide) and go to “Usage.”
- 4 – Ensure that the inverter output is in the “OFF” position: **a red switch symbol must be shown** to the right of the grey circle: . If this switch symbol is green, press the switch to turn off the inverter, then exit the app.
- 5 – Use the supplied RJ45 cable to connect the two batteries (see the installation guide – **battery coupling connector**)
- 6 – Start the app and select one of the EZA.
- 7 – Use the bottom of app pages or the “Maintenance” page to make sure that the setting is **configured to read 260Ah instead of 130Ah**

## Installation and setup procedure (1/2)

### 2. WHILE plugging in

#### C- Connecting the Coupling Unit

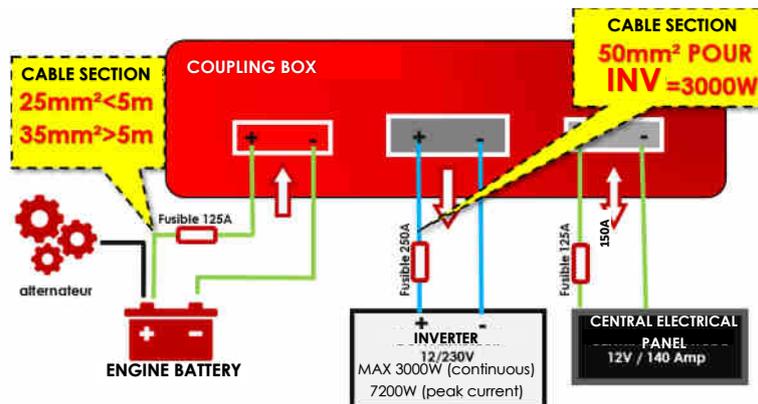


- Ensure that **the coupling unit is equidistant** from both EZA (measured as the length of cable)
- In the event of a partial connection (instance specific to motorhomes and boats), **ensure that all coupling cables are connected under all circumstances to ensure that the current is balanced** between the batteries (e.g., if the inverter line is disconnected)

For any custom connection requirements, please contact our technical team on +33 (0)4.72.01.89.47 or by e-mail at: [contact@eza.fr](mailto:contact@eza.fr)

#### C – connecting external cables:

- Ensure that the correct cable sectional areas are selected in accordance with the specification, based on the distance between the engine starter battery and the EZA Battery (alternator charging cable to **red SB120 connector**)



- Optimise the links between inputs and outputs: **distances and sectional areas must be appropriate.**
  - Between the coupling unit and the engine starter battery: **cable with a sectional area of 25mm<sup>2</sup> for distances below 5m and 35mm<sup>2</sup> sectional area cable for distances greater than 5m.**
  - Between each EZA 130 and the coupling unit: cable with a **minimum** sectional area of **16mm<sup>2</sup>**– cable supplied. Pay close attention if a cable not supplied by EZA is used, or if the distance is extended.
  - Dedicated inverter lines: grey SB175 connector, output to coupling unit → cable of **50mm<sup>2</sup> minimum sectional area for a 3000W inverter.** Warning: if there is a significant distance, please contact us.

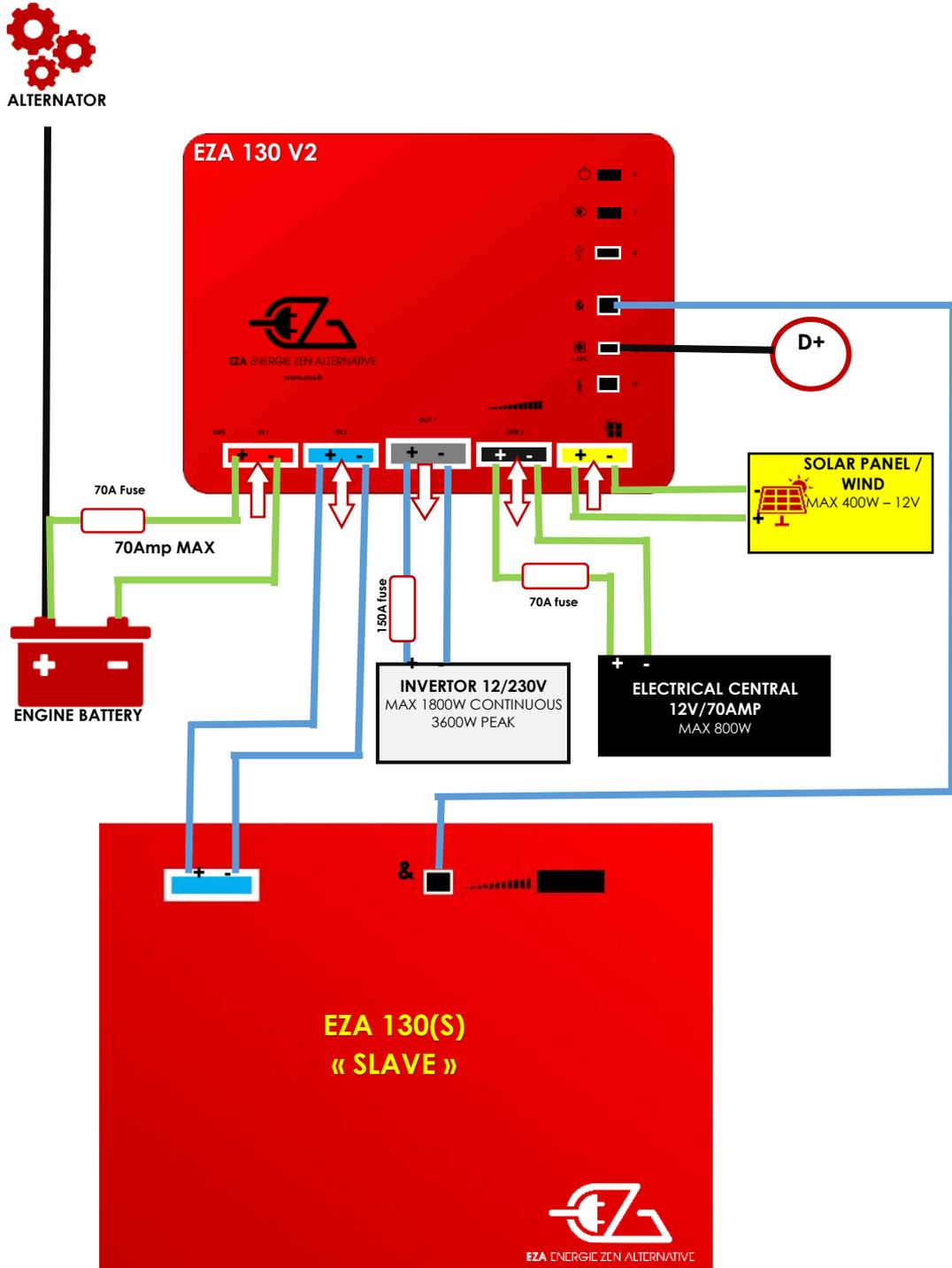
### 3. AFTER plugging in

- 1 – Test each line: Do this by **comparing the information shown in the app with measurements carried out using a clamp ammeter** on each EZA. The app will display the sum of the two currents, which should be equal to one another.

# EZA 130 SLAVE REF. EZA130S

## Installation diagram

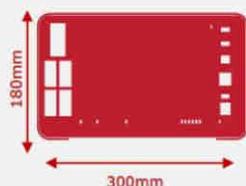
ANNEX N°4



## 14- Technical features

### EZA Power Pack 80Ah

#### Technical features



Depth:  
260 mm

##### General features

Capacity: 80 Ah  
Nominal voltage: 12V  
Technology: LiFePO4  
Impedance: <30m $\Omega$   
Operational temperature: -20°C/+60°C  
Storage temperature: -10°C/+45°C  
Rate of discharge to empty: <3%/year  
Integrated battery surveillance module: BMS  
Maintenance interface: USB  
Battery management: EZA App  
Bluetooth module  
Details of the changes on each charge/discharge line  
Recording of events (SD memory card)  
Possibility of coupling batteries (x4 max.)  
Converter management  
EURO 6 compatible

##### Protection

Protected charge lines  
Protected discharge lines  
Battery security in case of short circuit  
Battery security in case of overcharging  
Battery security in case of deep discharge

##### Maintenance

Diagnostic plug connector

##### Alternator charge line

EURO 6 compatible charge line regulator: 0-70A (integrated)  
Max. current: 70A  
Max. charge voltage: 14.6V

##### Photovoltaic charge line

Integrated photovoltaic regulator: 12V/50A  
Max. solar panel voltage: 22V  
Line protection: 50A

##### Auxiliary load line

Max. external charger: 14.6V/70A  
Line protection: 70A

##### Supply discharge line

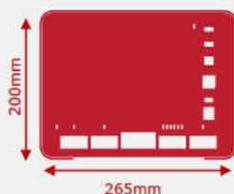
Min. voltage: 10V  
Max. voltage: 14.6V  
Energy cut off: 9.8V  
Line protection: 70A

##### Converter discharge line

Min. voltage: 10V  
Energy cut off: 9.8V  
Line protection: 150A  
Max. constant current: 150A/1800W  
Surge current: 5ms 150A

### EZA Power Pack 130Ah

#### Technical features



Depth:  
380 mm

##### General features

Capacity: 130 Ah  
Nominal voltage: 12V  
Technology: LiFePO4  
Impedance: <30m $\Omega$   
Operational temperature: -20°C/+60°C  
Storage temperature: -10°C/+45°C  
Rate of discharge to empty: <3%/year  
Integrated battery surveillance module: BMS  
Maintenance interface: USB  
Battery management: EZA App  
Bluetooth module  
Details of the changes on each charge/discharge line  
Recording of events (SD memory card)  
Possibility of coupling batteries (x4 max.)  
Converter management  
EURO 6 compatible

##### Protection

Protected charge lines  
Protected discharge lines  
Battery security in case of short circuit  
Battery security in case of overcharging  
Battery security in case of deep discharge

##### Maintenance

Diagnostic plug connector

##### Alternator charge line

EURO 6 compatible charge line regulator: 0-70A (integrated)  
Max. current: 70A  
Max. charge voltage: 14.6V

##### Photovoltaic charge line

Integrated photovoltaic regulator: 12V/50A  
Max. solar panel voltage: 22V  
Line protection: 50A

##### Auxiliary load line

Max. external charger: 14.6V/70A  
Line protection: 70A

##### Supply discharge line

Min. voltage: 10V  
Max. voltage: 14.6V  
Energy cut off: 9.8V  
Line protection: 70A

##### Converter discharge line

Min. voltage: 10V  
Energy cut off: 9.8V  
Line protection: 150A  
Max. constant current: 150A/1800W  
Surge current: 5ms 150A