
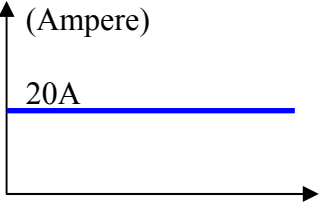
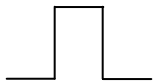

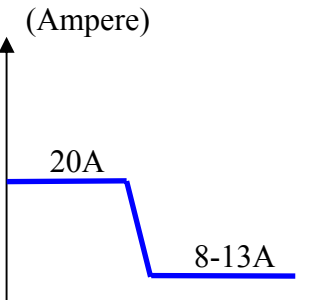



1. What offers the device MULTI ENERGY FUNCTION (MEF)

The MEF, besides enabling the motor-caravanners to **optimize the operating of the EG20 when being on “High Mountains”** (over 1500 m AMSL) also allows the motor-caravanner to **select the power delivered from the EG20**, as illustrated in the table here below.

<p>Hare Mode (Standard operating of the Eg20)</p> 	<p>(Ampere)</p> 	<p>Eg20 (ON)</p> 
<p>Turtle Mode</p> 	<p>(Ampere)</p> 	<p>Eg20 (ON)</p> 

Note 1:

Firm Elettromeccanica GASPERINI recommends to use the EG20 with leisure batteries of overall capacity of 200Ah.

The MEF is recommended specially when the overall leisure batteries capacity is < 160 Ah. Avoid overall capacity lower than 100 Ah.

Note2:

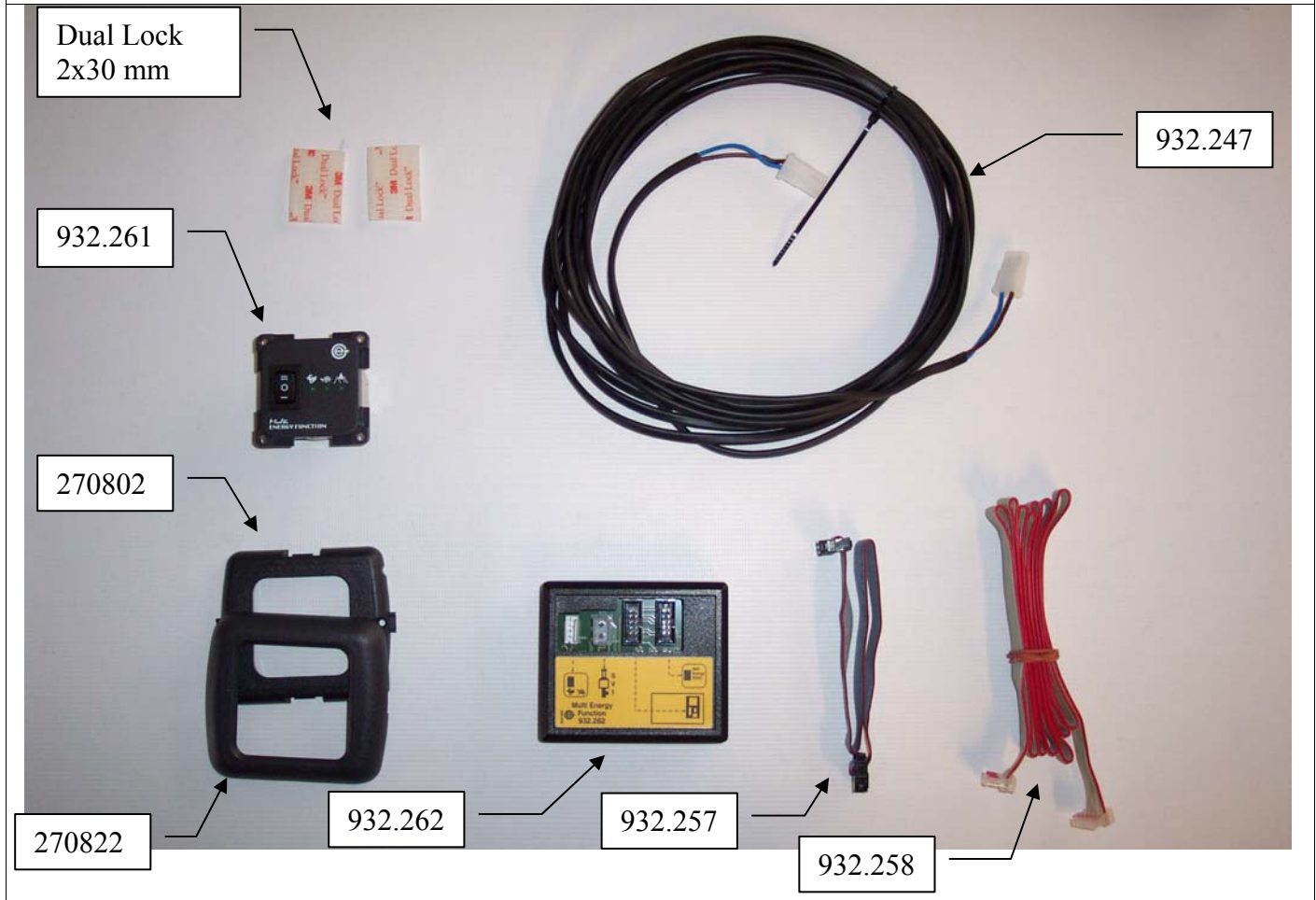
Batteries change their performances for many reasons (temperature, inactivity, years of use, etc). The operating times of the EG20 vary depending from the capacity and performances of the leisure batteries.

2. Packaging of SELF ENERGY EG20 + MEF.

Besides the EG20E and its accessories (see EG20 Use and Maintenance Handbook) in the packaging there are also the following parts for the MEF device:

The MEF Kit is composed by some parts installed inside the EG20 and set at the factory.

In this picture there are the parts of the MEF, that have to be fitted when installing the EG20 on the Motor Caravan.



932.262	MEF Control box
932.261	MEF Control module
270802	Grey Support CBE 270802
270822	Module Cover CBE 270822
932.247	MEF Supplementary signals cable
932.257	By-pass cable Eg20E Control box ÷ MEF Control module
932.258	Connection cable MEF Control box ÷ MEF Control module

Optional

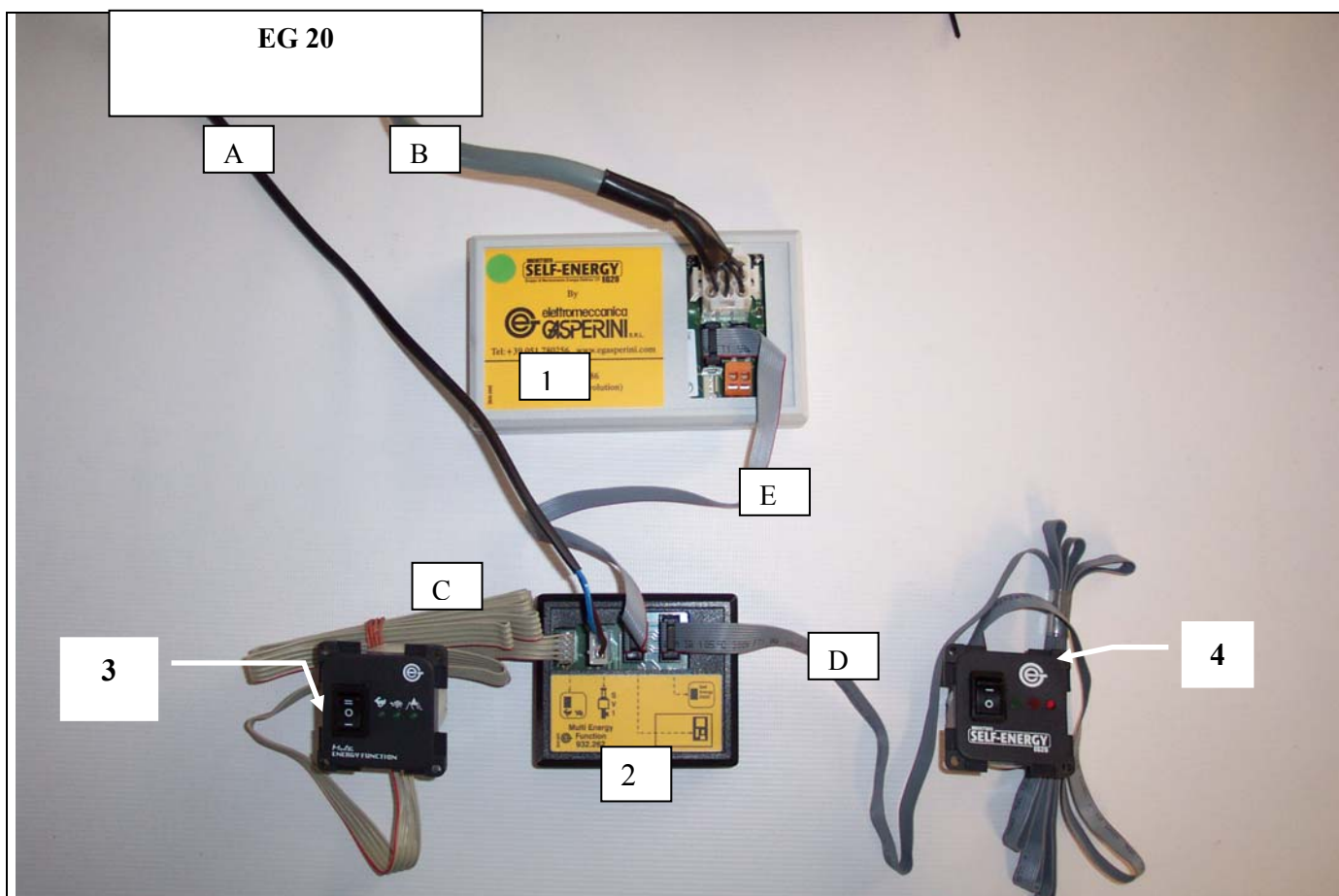
Double support with cover
(item 932.227)



To fit together with an unique covering frame the control modules of the SELF ENERGY EG20 and of the MEF device.



3. Connections (Control box / Control module MEF <=> Control box / Control module EG20)



	Description	Delivered with the KIT of the
1	Eg20 control box (932.186)	EG20
2	MEF control box(932.262)	MEF
3	MEF control module	MEF
4	EG20 control module	EG20
A	Cable item 932.247 that connects the MEF control box with the EG20	MEF
B	Connecting cable from the EG20 control box and the EG20 itself	EG20
C	Cable item 932.258	MEF
D	Cable of the EG20 control module	EG20
E	Cable item 932.257	MEF
- Install [1] and [2], next to each other. For the EG20 installation: refer to the EG20 handbook.		

4. Test

Set the control module item 932.261 (MEF) in HARE mode (Hare led on) .

- Check that the leisure battery voltage is > 12V
- Do not put any electric load
- **Turn ON the switch of the control module of the SELF ENERGY EG20.**
- The Eg20 sets in stand-by (the green led on the control module of the EG20 blinks at 1 second intervals).
- **Set the MEF control module in TURTLE mode**
- Check that the correspondent led turns on
- **Set the switch in HIGH MOUNTAIN mode**
- Check that the correspondent led turns on

HARE mode

- **Set the switch in HARE mode**
- **Start the EG20 (manually by pressing the switch on the control module of the EG20 or running down the leisure battery by starting any appliance)**
- The EG20 delivers the maximum power until it automatically stops at 14,5V

TURTLE mode

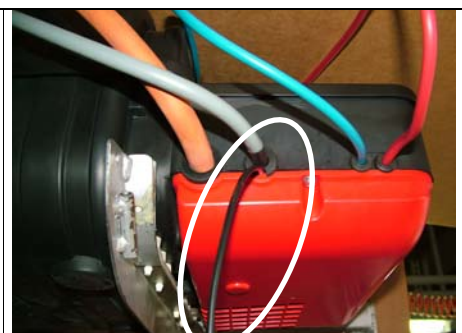
- **Set the switch of the MEF control module in TURTLE mode**
- **Start the EG20 manually by pressing the switch in the EG20 control module.**
- In the Turtle mode the EG20 delivers the maximum power until it reaches the indicative threshold of 14V, than the power lowers down automatically (note 1) to a value between 8 and 13 A (indicative). Reached the maximum threshold of 14,5V the Eg20 stops automatically.

Note 1: The Eg20 sets automatically to the maximum power if the leisure batteries by the use of any appliance run down till a value of < 12,6 V.

HIGH MOUNTAIN mode

Over 1500 m ASLM, the user can select the HIGH MOUNTAIN mode. In this situation the Eg20 delivers always a reduced power between 8-13 A (indicative value).

The HIGH MOUNTAIN mode is critical at altitudes of < 1500 m: The Eg20 could not start.



After the test, close the inspection cover of the EG20.

Cable item 932.247