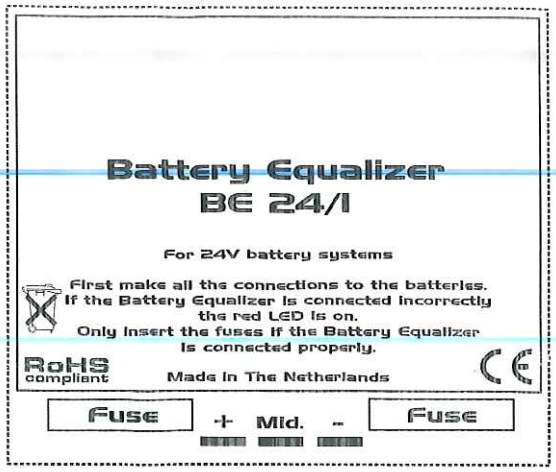
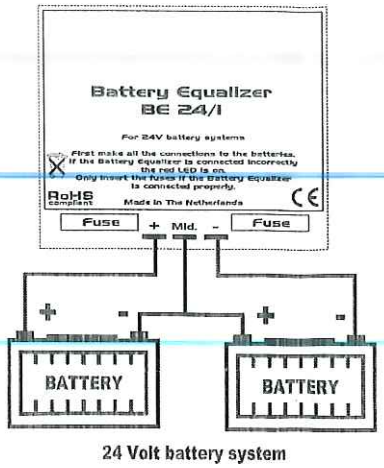
Battery Equalizer (BE 24-1)





24 Volt battery system

Function
The Battery Equalizer is designed to keep the same Voltage level of both batteries during charging in a 24 V battery installation, which is composed of two 12 Volt batteries.

Problem
Batteries of the same kind and type could eventually have different voltage levels. Such difference in voltage can be caused by the temperature difference of both batteries or because the capacity has changed.
The Battery Equalizer ensures a timely detection and solves the problem, which will result in extended live of your batteries.

Operation
The equalizer makes very efficient use of energy and brings the higher voltage level to the battery with the lowest voltage level. This is done with a maximum current of 2.5 Amps.
The current will decrease when the voltage difference between both batteries will be smaller. If the voltage level of both batteries are the same, this is achieved when the batteries are fully charged, the current draw is less than 3 mA.
If the voltage difference is larger then 200 mV, the yellow LED will light up.
If a yellow LED blinks once every 5 seconds the Battery Equalizer active, but the voltage difference is less than 200 mV.
If a yellow LED blinks once every 10 seconds, the Battery Equalizer is off.

Connecting
Connect consecutively the plus (+), middle branch and the minus (-) to the Battery Equalizer.
Note the correct polarity. No LEDs should be lit.
If one or two red LEDs light up, there is a wire connected incorrectly.
If everything is connected correctly, the fuses can be mounted.

Specificaties

Input voltage:	20 - 35 V
Max. equalizer current:	+/- 2,5 A
Standby current:	+/- 1,5 mA
Active current:	+/- 3 mA
Fuses:	2 x 7,5 A
LEDs red:	2 x, Wrong connection
LED yellow:	1 x, Status and indication of in working order
Equalizer auto off at low voltage:	< 25,6 V
Equalizer auto off at high voltage:	> 32 V
Measurements (LxWxH):	100x90x35 mm
Weight:	97 g