Operation Manual

BA20003 - 2 Way Battery Equaliser

Version: 5.0

VALEN Power

AUSTRALIA
1300 734 253
sales@valen.com.au
www.valen.com.au

NEW ZEALAND
0800 734 253
sales@valen.co.nz
www.valen.co.nz

Application

The 2 Way Battery Equaliser may be used on 12V lead-acid batteries which are connected in series to maintain equal battery voltage balance.
When the batteries are connected in series, the voltages may vary due to impedance differences, the cell chemical composition and temperature. One battery may go high and another low so that one becomes under charged and the other over-charged. The battery equaliser will equalise/balance the battery voltage when it detects there is more than 20mV voltage difference between two batteries. It will shunt current from one battery (the higher voltage one) to the other battery (the lower voltage one). Until their battery voltage are both 20mV of each other. This will improve battery's performance and extend battery life.
The 2 way Battery equaliser may be used for 24V, 36V, 48V and any other 12V battery system. The 2 Way can equalise up to 2 cells/batteries.

Technical Data

Product Code	BA20003
Battery Nominal Voltage	0-5A
Optimising Current	<3mA
Quiescent Current	70 x 70 x 27mm
Dimensions	Reverse Polarity Protection
Protection	10V
Low Voltage Disconnect	1.8V

LED Indication:

	LED A	LED B
U(A)=U(B)	OFF	OFF
U(A)>U(B)	FLASH	OFF
U(A)<U(B)	OFF	FLASH
U(A)<10V	ON	OFF
U(B)<10V	OFF	ON
U(A/B)<10V	ON	ON

Installation

Connect the 2 Way Battery Equalise in the following order:

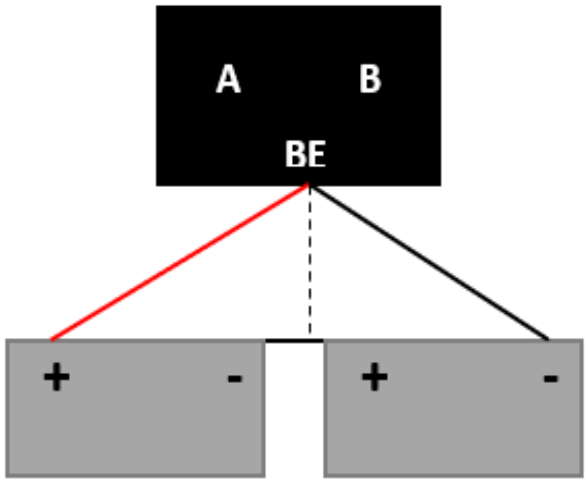
1. Red cable connect to the positive (+) pole. Black cable connect to the negative (-) pole.
2. Connect the batteries as the pictures display below on page 4.
3. Unused leads may either be left in their insulators or, cut off and re-insulated.
4. When using multiple equalisers in a single battery system, one pair of each equaliser needs to be shared/paralleled to maintain equal voltage throughout the battery string.

SUGGESTION: Connect all (+) pole firstly, then (-) pole to avoid short circuits.

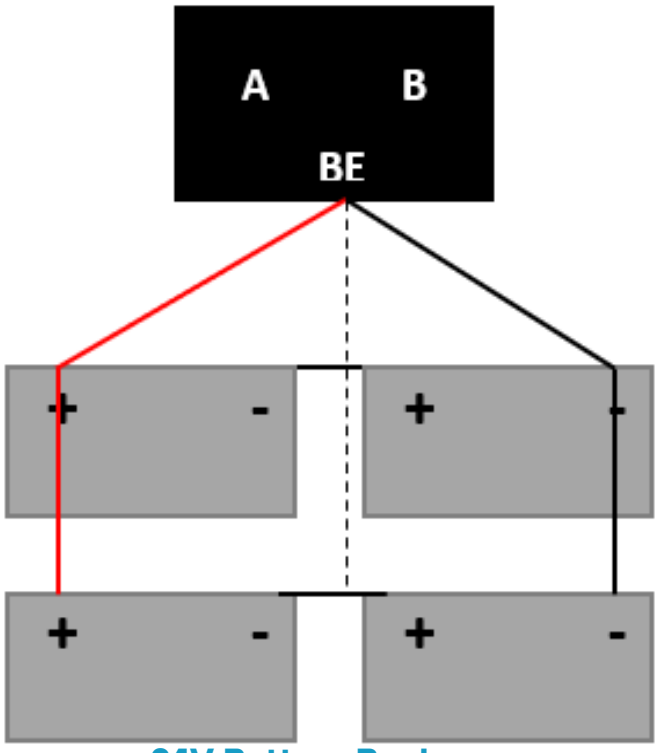
PLEASE NOTE! All cables must be connected because if they're not, the equaliser will always think that there is a battery in the string at 0V and will attempt to charge it.

DISCLAIMER OF LIABILITY

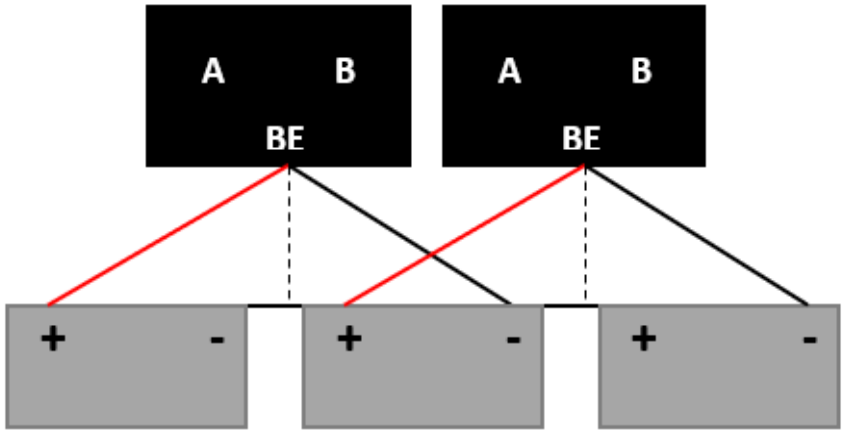
Please read instructions carefully and keep safe. This operation manual contains product specification and operation instructions. Valen assume no responsibility resulting from incorrect installation or incorrect usage. Nor will we be liable for any costs or losses.



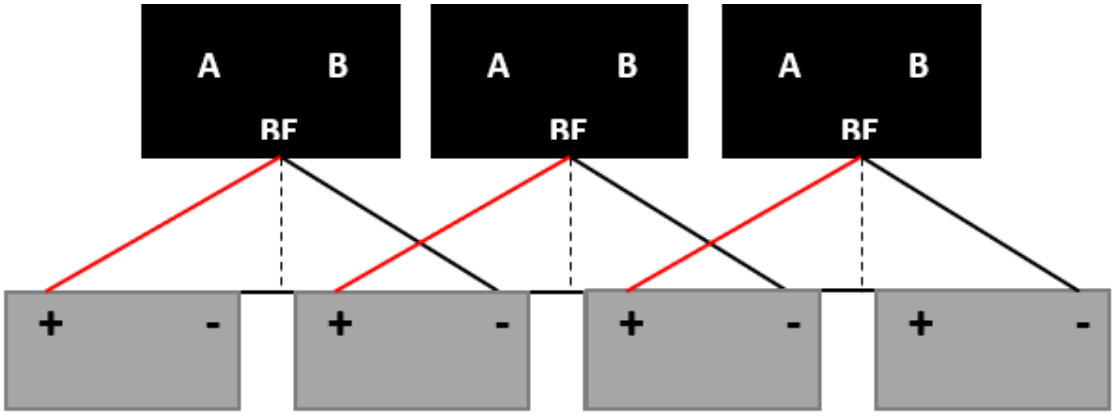
24V Battery Bank



24V Battery Bank



36V Battery Bank



48V Battery Bank

VALEN Power | Powering Potential

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