Operation Manual

BA20004 - 4 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 4 Way Battery Equaliser may be used on 12V lead acid batteries which are connected in series to maintain equal battery voltage balance.
When 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 10mV voltage difference between the batteries. It will shunt current from one battery (the higher voltage battery) to the other battery (the lower voltage battery). Until the battery voltages are both 10mV of each other. This will improve the battery's performance and extend the battery life.
The 4 Way Battery Equalise may be used for 24V, 36V, 48V and any other 12V battery system.

Technical Data

Product Code	BA20004
Battery Nominal Voltage	4* (2V/6V/12V)
Optimising Current	0 - 10A
Quiescent Current	5mA (12V) 1.2mA (24V)
Dimensions (mm)	62 x 124 x 27
Protection	Reverse Polarity Protection
Low Voltage Disconnect	1.8V

Product Features

- Fast balance speed and low consumption
- IP67; waterproof and moisture-proof
- No need for external power supply or extra maintenance
- Reverse polarity protection, safe and reliable

Installation

Connect the 4 Way Battery Equalize in the following order:

1. Starting from the left hand side, this is battery 1 and the first positive lead of the equaliser is to be connected to this battery.
   Red cable connects to the positive (+) pole. Black cable connects to the negative (-) pole.
2. Each pair of positive and negative connections leads go to the same battery.
3. The fifth pair of leads connects to battery 1 of the second string of batteries in parallel.
4. On the second string of batteries in parallel, repeat steps 1-3. Battery 1 of the second string of batteries in parallel will have the fifth pair of leads from the equaliser from the first string of batteries as well as the first set of connection leads for this battery string.

SUGGESTION

Connect all (+) pole firstly, then (-) pole to avoid short circuits. Equaliser connection to be installed on top of any connectors/links but below flat and spring washer.

PLEASE NOTE! All batteries must be connected for the equalising to work. Once all batteries have been connected, the spare leads can either be paralleled on to the last battery or cut off.

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.

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