

# Battery Equalizer

## APPLICATION

Battery equalizer HA01 is used for the lead-acid batteries which are connected in series to keep battery voltage balance.

When two or more in-series connected batteries are in charging/discharging/free status. The battery voltages maybe become different. One battery voltage is high and one is low. The battery equalizer will equalize/balance the battery voltage when it detect there are 20mV 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 almost becomes same. This will improve battery's performance and extent battery's life time.



## TECHNICAL DATA

Battery nominal voltage	2*12V
Optimizing current	0-5A
Quiescent current	<3mA
Dimensions	70*70*27 mm
Protection	Reverse polarity protection
Low Voltage Disconnect	10V

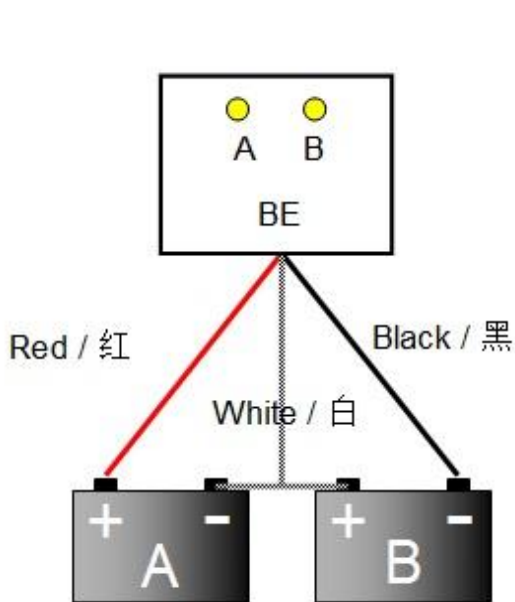
## LED INDICATOR

	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

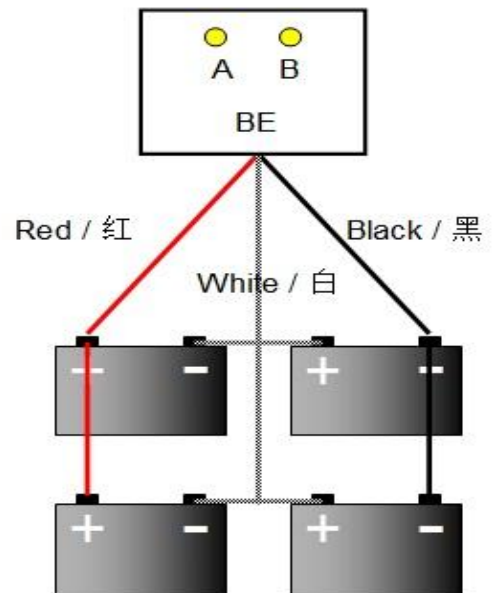
## Installation / 连接方式

Please connect the battery equalizer to battery as follows: (Please check the pictures)

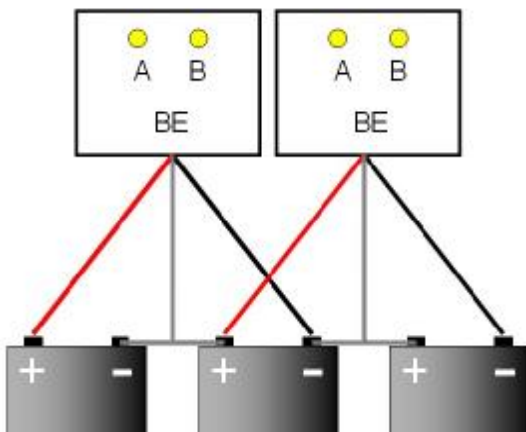
- 1. Red cable: Battery A positive/+ pole**
- 2. Black cable: Battery B negative/- pole**
- 3. White cable: Battery A negative pole or Battery B positive pole. (The pole which connected Battery A and Battery B in series)**



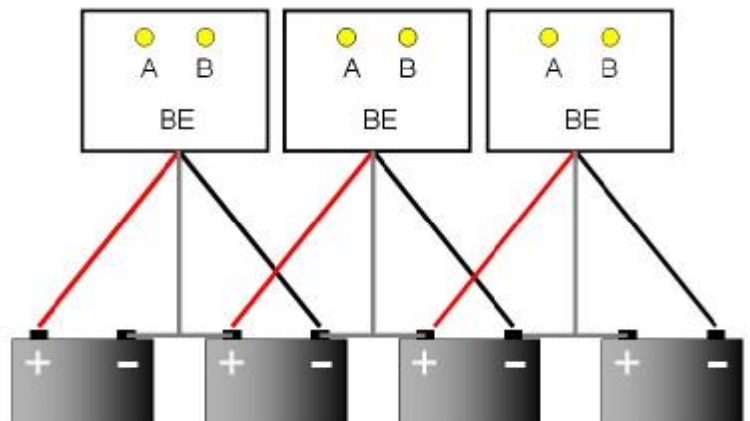
24V battery bank of 2batteries



24V battery bank of 4 batteries



36V battery bank



48V battery bank