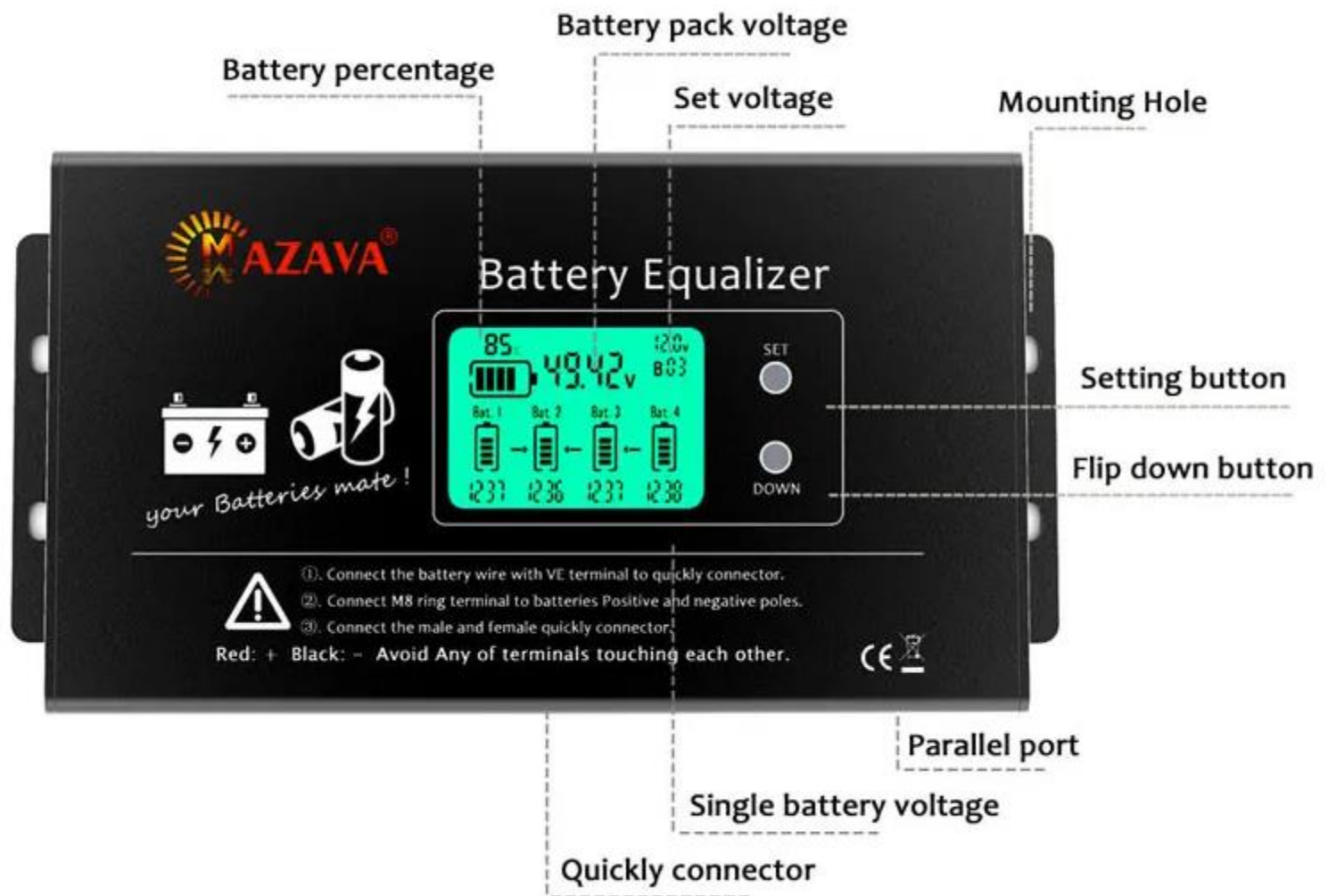


# APPLICATION

HX02 battery equalizer is used for the batteries which are connected in series to keep the voltage of batteries are equal when the batteries are charging or discharging. When the batteries work in series connection, the batteries voltage maybe will be not same due to the difference of each cell chemical composition and temperature. And each battery's self-discharge rate also different. So even the batteries not work, their voltage of series batteries will be also different. These differences will cause battery lost balance, this means maybe one battery is overloaded and the other is insufficiently charged. The voltage difference will be increased with the battery repeated charge-discharge process. This will result in premature failure of the batteries.

HX02 battery equalizer is energy transfer type equalizer, it can compensate for batteries with two sides. The equalizer starts to work when there are 10mV between two batteries. The current will flow from a higher voltage to low voltage, eventually reach equilibrium. It can connect with battery system with 24 hours, to keep the system energy balance automatically, no need manual maintenance.

HX02 battery equalizer adopts an aluminum alloy shell design, which is more conducive to component heat dissipation. The plug-in terminals and 1-meter extension cable are more convenient for user installation. The wide voltage design can be used for 7-18V single cell batteries, and the products are mostly used for 12V lead-acid battery packs and 12V lithium battery packs (lithium titanate, lithium ion, and lithium iron phosphate)



## INSTALLATION



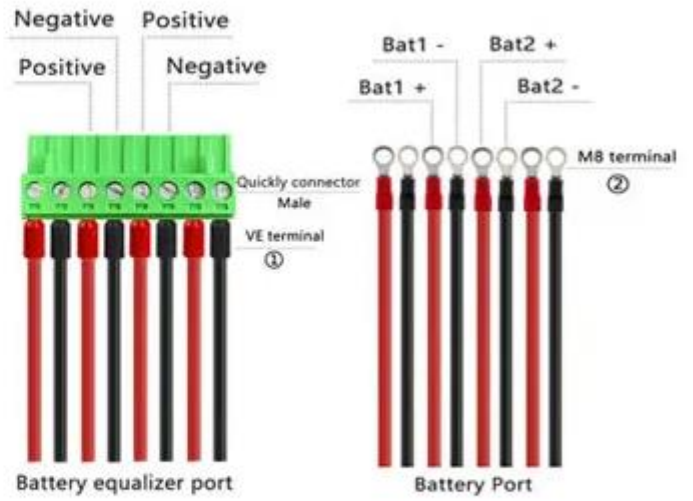
Please read the instruction manual before installing the device! Before connecting the equalizer, please confirm the positive and negative poles of each set of batteries to avoid the short circuit and reverse connection between the terminals of the battery equalizer.

- ① Connect the VE terminal to the quick connector male port red (positive) and black (negative).
- ② Connect the red battery connection line with M8 terminal to the positive pole of the first battery, connect the black connection line to the negative pole of the battery, and so on for other batteries.
- ③ After checking the wiring, connect the fast terminal male to the battery equalizer female port.
- ④ If multiple battery balancers are used in parallel, it is necessary to connect parallel cables.



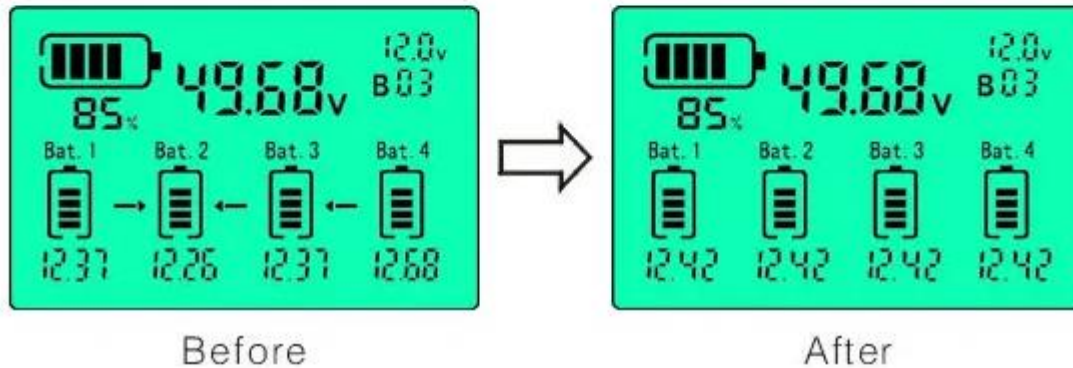
③ Quickly connector  
Female

Parallel Port



# WIRING DIAGRAM

- ① Long press SET button 3s, then the B00 will flash.
- ② Press the set or down button and choose correct battery model No.
- ③ After the 3 seconds, the system automatically saves and the battery voltage set complete.



## Voltage setting Table

Model No	Quantity of the cells	Rated Voltage	Battery Type	Max charge voltage
B01	2S x 3.7V	7.4V	Lithium Ion Battery	8.4V
B02	3S x 3.7V	11.1V	Lithium Ion Battery	12.6V
B03	/	12V	Lead-acid battery	14.8V
B04	4S x 3.2V	12.8V	LiFePO4 Battery	14.4V
B05	4S x 3.7V	14.8V	Lithium Ion Battery	16.8V