



Battery equalizer

APPLICATION

BAT/48326 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 battery voltage may be not the same due to the difference of each cell chemical composition and temperature. And each battery's self-discharge rate is also different. So even if the batteries do not work, their voltage of series batteries will be also different. These differences will cause battery imbalance, 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.

BAT/48326 battery equalizer is an energy transfer type equalizer, it can compensate for batteries with two sides. The equalizer starts to work when there is a 10mV difference between two batteries. The current will flow from a higher voltage to a lower voltage, eventually reaching equilibrium. It can connect with a battery system with 24 hours, to keep the system in energy balance automatically, no need for manual maintenance.

BAT/48326 battery equalizer is suitable for lead-acid batteries (VRLA), lithium iron phosphate batteries (LFP), nickel-cadmium secondary batteries (Ni/CD), and nickel-metal hydride secondary batteries (Ni/MH). It starts working when the voltage is higher than 2.4V, it means that this equalizer can be used in a single cell battery range from 2.4V to 12V. One equalizer can connect 4 batteries at one time, if fewer than 4, the extra cables can be left vacant (positive and negative terminals should be avoided), it does not affect the equilibrium effects. The equalizer is not affected by the battery connection way, no matter in series or in parallel, both can work.

TECHNICAL DATA

Battery nominal voltage	4* (2.4V/3.6V/6V/9V/12V)
Optimizing current	0-10A
Quiescent current	5mA(12V) 1.2mA(2.4V)
Dimensions	62*124*27 mm
Protection	Reverse polarity protection
Under voltage lock out	1.8V

INSTALLATION

Connect it as the following order:

- 1.Red cable connect positive/+ pole. Black cable connect negative/- pole
 - 2.Connect the batteries as the pictures
- You can connect all + pole firstly,and then - pole to avoid short circuits.

**Note: 1.If there are extra cables, please leave the tubes of the terminals on it to avoid short circuits.
2.Please avoid any of the 8 terminals touching each other.**

