Battery equalizer

APPLICATION

HA02 battery equalizer is used for the batteries which are connected in series to keep the voltage of batteries ar e equal when the batteries are charging or discharging. When the batteries work in series connection, the batteri es voltage maybe will be not same due to the difference
of each cell chemical composition and temperature. And each battery's selfdischarge 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 diff erence will be increased with the battery repeated charge-discharge process. This will result in premature failure of the batteries.

HA02 battery equalizer is energy transfer type equalizer, it can compensate for batteries with two sides. The equ alizer starts to work when there are 10mV between two batteries. The current will flow from a higher voltage to lo w voltage,eventually reach equilibrium. It can connect with battery system with 24 hours , to keep the system en ergy balance automatically, no need manual maintenance.

HA02 battery equalizer is suitable for lead-acid batteries(VRLA), lithium iron phosphate batteries(LFP), nickel-ca dmium secondary batteries(Ni/CD), and nickel-metal hydride secondary batteries(Ni/MH). It starts work when the voltage 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 once a time, if battery less than the 4, the extra cable can be vacant (posi tive and negative terminal should be avoided), does not affect the equilibrium effects. The equalizer is not affecte d with 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.