

## Product Introduction

HA02 Energy transfer battery equalizer, which can be used for 2.4-12V batteries in series or in parallel to keep battery bank voltage in balance.

When battery banks are in charging/discharging/free status, batteries voltage will have difference, which may cause one of the batteries to fail prematurely.

It will start to work when it detects there are 10mV voltage difference between four batteries. It will transfer energy from the higher voltage battery to the lower one until same totally.

The battery equalizer will assist in achieving the battery life expectancy.

## Product Features

- » Apply to any n\*(2.4V/3.6V/6V/9V/12V) battery banks;
- » Energy transfer type equalizer, fast balance speed and low consumption.
- » IP67, waterproof and moisture-proof;
- » No need of external power supply or extra maintenance.
- » Reverse polarity protection, safe and reliable.

## Technical Specification

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

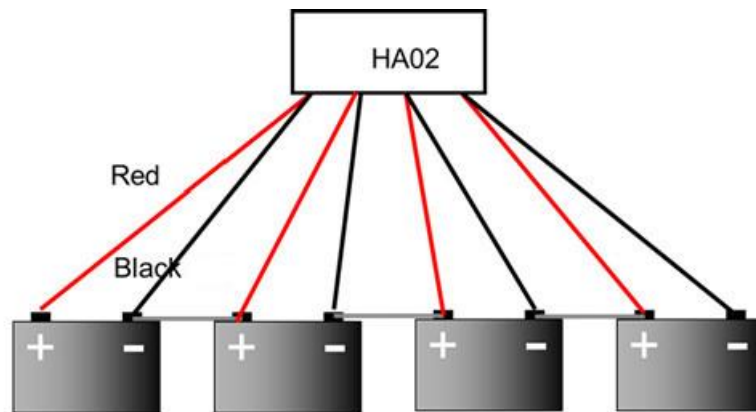
Connect it in the following order:

- 1.Red cable connects to the positive/+ pole. Black cable connects to the negative/- pole.
- 2.Connect the batteries as in the pictures below

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.**

For 48V systems:



For 24V systems:

