

Model: MBE-192

Application

MBE-192 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 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 insuffi-ciently charged. The voltage difference will be increased with the battery repeated charge-discharge process. This will result in premature failure of the batteries.

MBE-192 battery equalizer is energy transfer type equalizer, it

can compensate for batteries with two sides. The equalizer starts to work when there are 20mV 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.



MBE-192 battery equalizer is suitable for lead-acid batteries(VRLA), lithium iron phosphate batteries(LFP), nickel-cadmi-um 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 16 batteries once a time, if battery less than the 16, the extra cable can be vacant (positive and negative terminal should be avoided), does not affect the equilibrium effects. The equalizer is not affected with battery connection way, no matter in series or in parallel, both can work.

TECHNICAL DATA

| | |
|-------------------------|-----------------------------|
| Battery nominal voltage | 16× (2.4V/3.6V/6V/9V/12V) |
| Optimizing current | 0-10A |
| Quiescent current | 5mA(12V) 1.2mA(2.4V) |
| Dimensions | 200×120× 75mm |
| Protection | Reverse polarity protection |
| Under voltage lock out | Under voltage lock out |

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.

CONNECTION

Figure 1: 16×12V battery bank

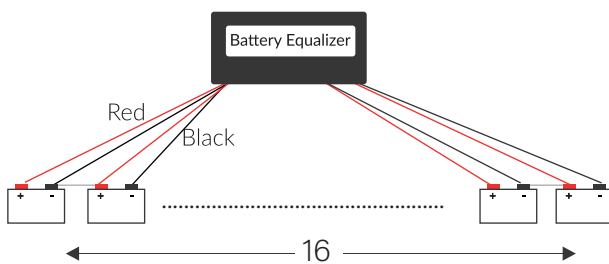
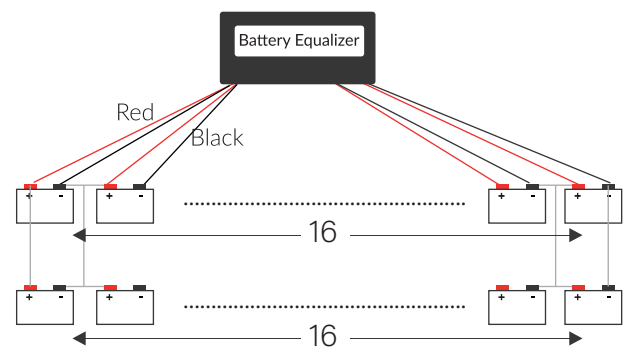


Figure 2: Multiples sets of batteries



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 16 terminals touching each other.