



Battery Equalizer HA01 User Manual

APPLICATION

Battery equalizer HA01 is used for the 12V lead-acid batteries which are connected in series to keep battery voltage balance.

When two or more in-series connected batteries are in charging/discharging/free status. The battery voltages maybe become different. One battery voltage is high and one is low.

The battery equalizer will equalizer/balance the battery voltage when it detect there are 20mV between two batteries. It will shunt current from one battery (the higher voltage one) to the other battery (the lower voltage one). Until their battery voltage almost becomes same. This will improve battery's performance and extent battery's life time.

Battery equalizer can be used for 24V, 36V, 48V and any other

- 1. piece for 24V system;
- 2. pieces for 36V system;
- 3. pieces for 48V system;

TECHNICAL DATA

Battery nominal voltage	2×12V	
Optimizing current	0-5A	
Quiescent current	<3mA	
Dimensions	70×70×27 mm	
Protection	Reverse polarity protection	
Low Voltage Disconnect	10V	

LED INDICATOR

	LED A	LED B
U (A) =U (B)	Off	Off
U(A)>U(B)	Off	Flash
U(A) <u(b)< td=""><td>Flash</td><td>Off</td></u(b)<>	Flash	Off
U (A) <10V	On	On
U (B) <10V	On	Off
U (A/B) <10V	On	On

INSTALLATION

1.Black cable: negative/- pole

2.Red cable: positive/+ pole

3. White cable: Battery B negative pole or Battery A positive pole.
(The pole which connected Battery A and Battery B in series)



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



24V Battery





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- 3. pieces for 48V system;

TECHNICAL DATA

Battery nominal voltage	2×12V	
Optimizing current	0-5A	
Quiescent current	<30mA	
Dimensions	70×70×27 mm	
Protection	Reverse polarity protection	
Low Voltage Disconnect	10V	

INSTALLATION

- 1.Black cable: negative/- pole
- 2.Red cable: positive/+ pole
- 3. White cable: Battery B negative pole or Battery A positive pole.

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