



Innovative Electronics for a changing world

Manual



BATTERY BALANCER BB24 –

BB24 Battery balancer will balance 2 batteries in series to keep the voltage balanced between the 2 batteries to extend battery life.

Two Lead acid, AGM or Gel rechargeable batteries never have the same internal resistance and will tend to charge to different voltages when connected in series for 24V and connected to a 28V charger.

The Charger will keep on charging until the end voltage across the battery pack reaches 28.4V regardless of the voltage difference between the 2 batteries.

One Battery will always tend to charge higher than the other battery which in turn reduces battery life expectancy.

The BB24 Battery balancer will shunt current from the one battery with the highest voltage to the lower battery automatically while the charger is active causing the battery lower in voltage to rise in voltage until both batteries is equal in voltage thus extending battery life.

The balancing is only active while the total input voltage is above 26.0 Vdc meaning the mains charger or solar charger is active. As soon as night time falls on a solar site or mains power fails to a mains charger the batteries will drop quite quick below 26Vdc suspending the balancing operation to save energy.

Balancing will commence as soon as the input voltage across the battery pack exceeds 26.0Vdc.

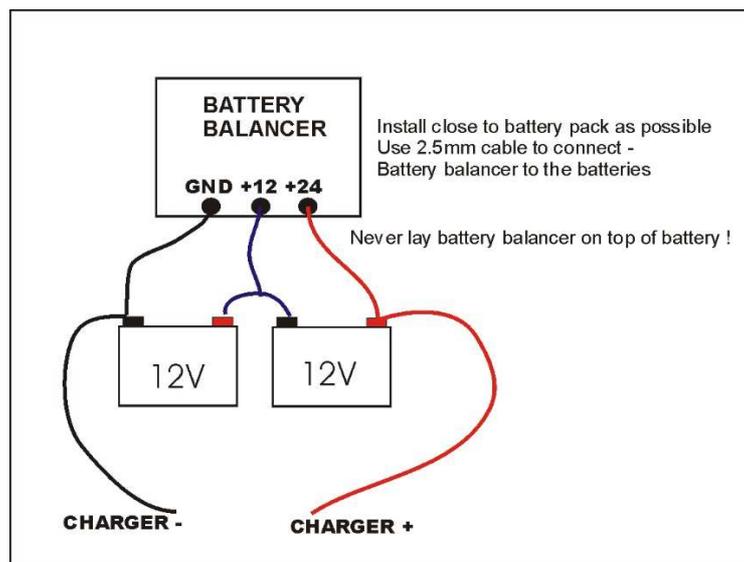
LCD display for easy onsite indication on battery voltages and operation status.

Internal fan for cooling if temperature exceeds 40 degrees Celsius.

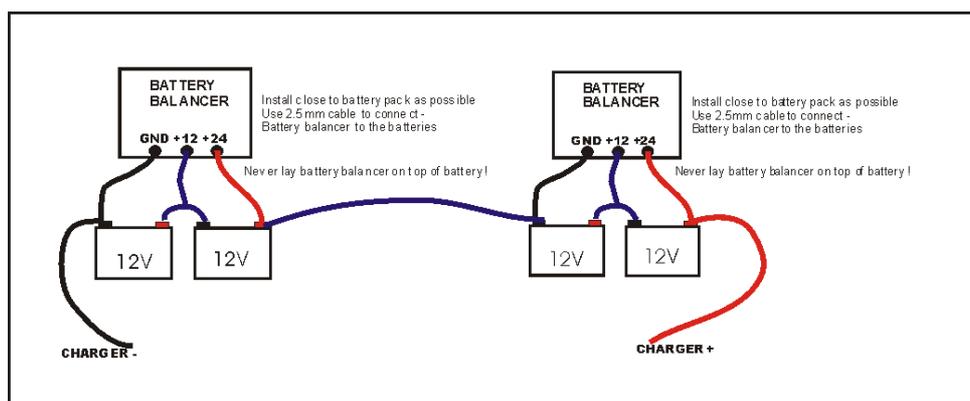
****ALWAYS MOUNT THE BATTERY BALANCER AS CLOSE AS POSSIBLE TO THE BATTERY PACK AND USE AT LEAST 2.5MM CABLE TO CONNECT THE UNIT ****

****THE ENCLOSURE MIGHT GET HOT , NEVER PLACE THE BALANCER ON TOP OF BATTERIES****

Connection: for 24V Battery pack



Connection: for 48V Battery pack using 2 x BB24



Physical dimensions: (L) 175mm x (W) 135mm x (H) 42mm

Weight: 0.8 Kg