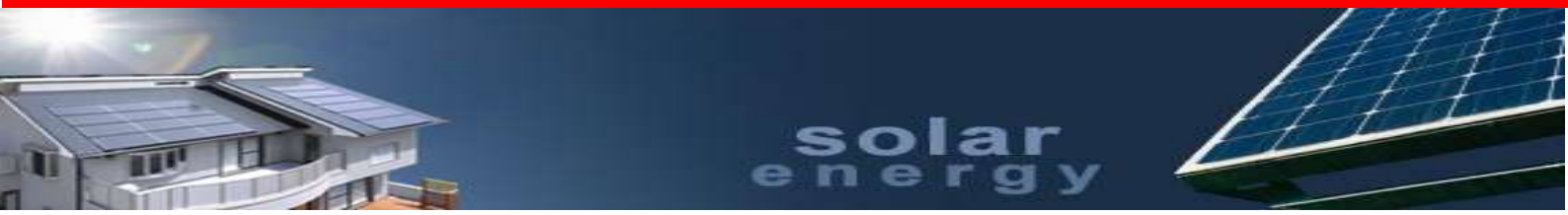
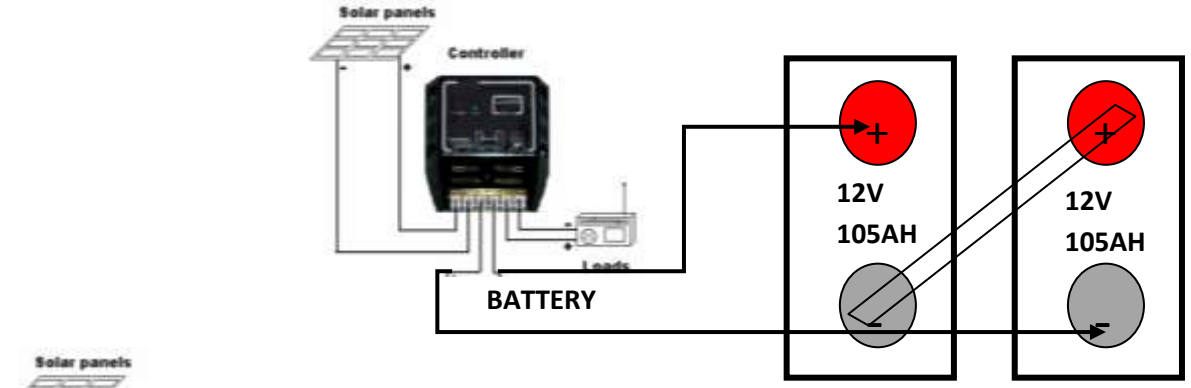
ZRW WIRING GUIDE

(NB ZRW assumes no responsiblility for any loss of property or damage resulting from improper interpretation or use of this guideline document)

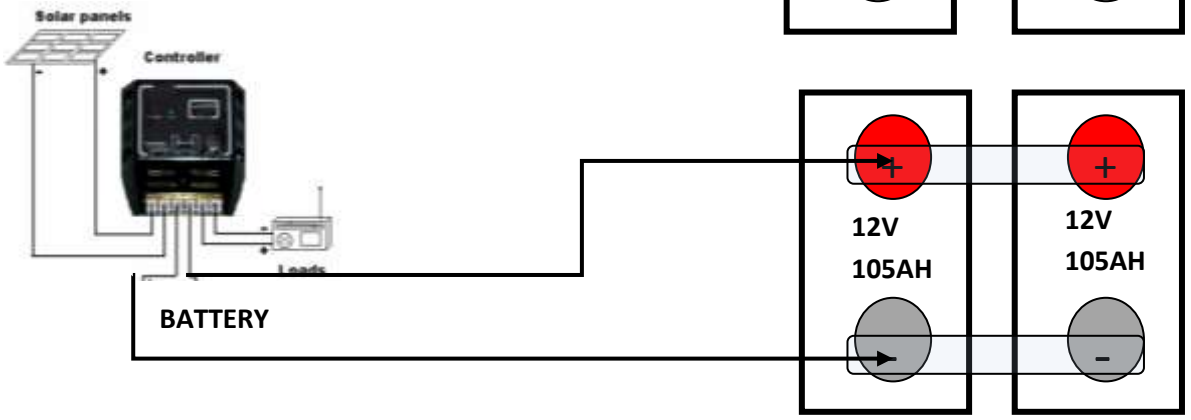




V = 24V

I = 105AH

Series system



V = 12V

I = 210AH

Parallel System

- Batteries may be wired in either series or parallel configuration.
- When a battery is wired in series the positive terminal is wired to the next battery's negative terminal. This increases the voltage while maintaining amperage of the two batteries.
- With parallel wiring the positive terminal is wired to the next battery's positive terminal, and the negative to the next negative. This arrangement increases amperage while maintaining voltage.
- One common mistake is to believe that both amperage and voltage will increase when wiring batteries together. It will not; only one value will increase with respect to the arrangement. A battery bank may combine both series and parallel wiring configurations.
- Series strings of batteries are used to achieve the correct voltage, then a number of these series strings are attached in parallel to increase the amp-hours of the total battery bank.
- If your system is any voltage eg 12V ensure your solar panels, controllers, batteries and inverters are wired for 12V, Similarly if your system is 24V ensure all components are wired for 24V

- **ALLWAYS ENSURE THAT YOU CONNECT POSITIVE(+) TERMINALS IN ALL COMPONENTS TO POSITIVE WIRE AND POSITIVE TERMINALS OF BATTERY AND NEGATIVE(-) TO NEGATIVE TERMINALS**
- **DO NOT CROSS OVER POLARITY OF CONNECTIONS OR WIRING AS THIS WILL DAMAGE YOUR CONTROLLER OR INVERTOR OR CAUSE DAMAGE OR POTENTIAL DANGER TO YOU.**

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