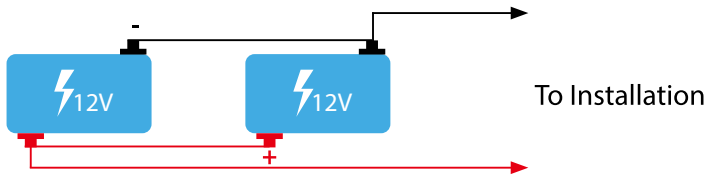
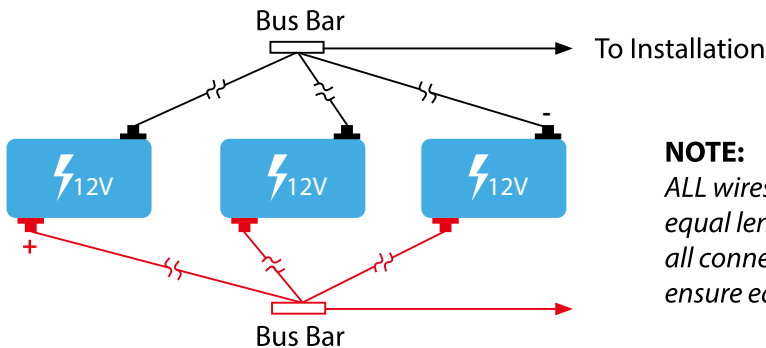


## Parallel Battery Connection

### 2 Batteries



### 3 Or More Batteries



#### NOTE:

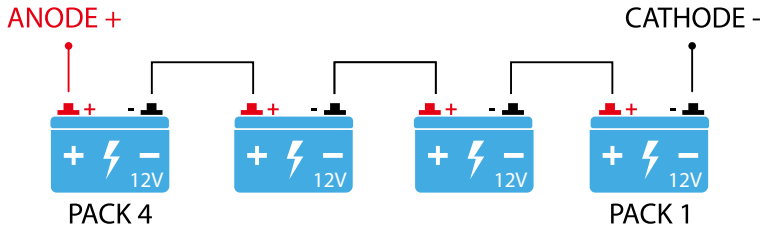
*ALL wires **MUST** be of equal length between all connections to ensure equal resistance.*

For detailed instructions on connecting multiple batteries in parallel, please see our white-paper on the topic via the support section of our website.

1. Ensure all batteries to be in the parallel configuration have been fully charged individually by the same charger.
2. Ensure OCV of each battery is within  $<0.2V$  of each other.
3. After charging, set aside and allow to rest for 2-3 hours.
4. Utilising wires of circumference large enough to carry required current, connect the batteries in the above configuration.
5. Ensure all connecting cables are of the same length.
6. Be careful not to reverse connect the positive and negative.
7. Ensure correct charge voltage and current is utilised for configuration.
8. It is prohibited to series a paralleled configuration.
9. Once in parallel configuration, ensure a full charge is completed a minimum of every 3 months.
10. Once in parallel, the 'system' must be charged and discharged as if it were a single battery.

## Series Battery Connection

### Maximum 4 Batteries



For detailed instructions on connecting multiple batteries in series, please see our white-paper on the topic via the support section of our website.

1. Up to four batteries can be connected in series for higher voltage applications. Alternatively select a higher voltage battery which Amptron has available.
2. Ensure all batteries in the series configuration have been fully charged individually by matched chargers.
3. Ensure OCV of each battery is less than  $<0.2V$  of each other.
4. After charging, set aside and allow to rest for 2-3 hours.
5. Utilising wires of circumference large enough to carry required current, connect the batteries in the above configuration. Ensure all connecting cables are of the same length.
6. Be careful not to reverse connect the positive and negative.
7. Ensure correct charge voltage and current is utilised for configuration:
  - a) Two batteries in series: 28.4V to 29.2V, recommended 28.6V
  - b) Three batteries in series: 42.6V to 43.8V, recommended 42.9V
  - c) Four batteries in series: 56.8V to 58.4V, recommended 57.2V
8. Once in series configuration, ensure a full charge is completed a minimum of every 3 months.
9. Once in series configuration, the 'system' must be charged and discharged as if it were a single battery.
10. Consider additional balancers to maintain the individual voltage levels of the batteries. Please get in touch with us for recommended options.