



## Battery Maintenance

Proper Charging procedure is to charge 12 hours before and after each use and also during the slow season from time to time, At least once every couple of months. Do not store in the cold for the winter and do not run your panel extremely low.

Batteries can fail if they are allowed to go below 10 Volts and will never recover, or accept a proper charge.

**DO NOT LEAVE CHARGER PLUGGED IN MORE THAN 24 HOURS AT A TIME OR DAMAGE TO THE BATTERIES CAN OCCUR.**

All Batteries have an internal resistance that constantly drains them when idle, this is how all batteries function, On equipment with portable batteries like your Car or Cell phone that you charge everyday this is not seen because you are constantly maintaining the batteries, If you were to neglect either of these things for 6 months you would find them with dead batteries that will no longer take a charge.

Just think of charging batteries as filling a bucket with water that has a small hole in the bottom, it can be filled but will go empty over time, the big difference is that batteries commit suicide when they are below a certain charge level and will never accept a charge again. **This would be like a bucket with a large hole.**

Battery maintenance is paramount to the proper operation of your Firing system, lead acid batteries like to be charged and do not like to run low, Neglect can wipe out your batteries capacity in no time at all. Normal life for a well maintained battery can be between 3 to 5 years but a poorly maintained battery can die almost immediately regardless of its age!!

**It is imperative that you Load test your Batteries annually,** if you do not have a load tester you should get one or send them in for testing.

A battery will read 12 volts at full capacity all the way down to little or no capacity, the voltage reading is only a reference, it is actually the batteries capacity of holding a charge MAH that is the important factor and can only be read with a load tester.

**Don't take any chances and always change your batteries Whenever Suspect**