AEROVOLTZ TECH TIPS

- **Maximum Voltage**: 14.4 volt
- **Minimum Charged Voltage**: 13.2 volts
- **Charged Resting Voltage**: 13.2 volts – 13.7 volts.
- **Minimum Voltage**: 9 volts
- **Standard Charge Rate Specifications**: 2amps @ 13.2 volts until the battery reaches a maximum voltage of 14.4 volts
- **Proper Charging should be completed using an Aerovoltz Balance Charger or Lithium Rated Charger**.
- The charger should have an automatic cut-off at 14.4V to prevent over charging
- If you are using an automatic charger, be sure it does not have an automatic "desulfication" mode. This is a lead-acid specific function that can damage the cells.
- Some conventional automatic chargers have charging parameters based around lead-acid voltage specifications which are lower than Aerovoltz voltage specifications. If your automatic charger shuts off at 12.8 volts then it will never fully charge an Aerovoltz battery with a resting voltage of 13.2v
- **Do not charge an Aerovoltz Battery above 14.4 Volts**. This will damage the battery. Resting voltage of a charged Aerovoltz battery should be between 13.2v – 13.7v.
- **Do not charge with an automatic charger in "desulfication" mode**.
- **Do not allow the battery to be drained below 9.0V**, this will damage the cells. If your vehicle has a parasitic draw like an alarm of similar devices, disconnect the battery when not in use. If the battery is allowed to be drained below 9.0V, it may not recharge to its maximum capacity. If the battery does become discharged, recharge immediately. If gets warm or hot during this process it has been damaged and is not safe to use.
- **Do not attempt to charge a Aerovoltz that is below 6.0Volts.** A Lithium battery below 6.0Volts is considered dead and is unsafe to use.
- **Do Not use a battery that has been completely drained, it is no longer serviceable.** Failure to follow this rule could lead to battery failure and serious damage to the vehicle and occupants.
- **Do not use a battery that is longer holding a charge:** this battery has sustained damage to the chemistry at some point and is no longer safe to use.
- **Do not use a battery that is getting hot or warm to the touch during normal charging or operation.** this battery has sustained damage to the chemistry at some point and is no longer safe to use.
- Failure to adhere to these charging specifications or exceeding these limits may cause battery failure and will void any potential warranty claim.
- Aerovoltz batteries behave differently in cold weather than traditional lead acid batteries. A traditional lead acid battery delivers maximum current at the first initial draw and then degrades from there. Aerovoltz batteries actually get stronger with each successive draw. In cold weather the Aerovoltz battery has the ability to generate its own internal heat energy by putting a draw on the battery. In practice, what happens is that in cold weather, the Aerovoltz battery may need to have a draw put on the battery several times before it is up to temperature and ready to deliver maximum amperage. We rate the Aerovoltz battery with an operating environment of 0°F (-18°C) to 140°F (60°C).

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