



# INSTRUCTION MANUAL AND WARRANTY

## SPECIFICATIONS

### 4 Cell Model

Dimensions: 60MM (L) x 60MM (W) x 100MM (H)  
Weight: 385 grams, 13.6 oz  
Voltage (Charged): 13.6V  
Amperage: 8 Pbeq A/H  
Cold Cranking Amps: 135  
Operating Environment: 0°F to 140°F

### 8 Cell Model

Dimensions 113MM (L) x 60MM (W) x 100MM (H)  
Weight 730 grams, 1lb 10oz  
Voltage (Charged) 13.6V  
Amperage 15 Pbeq A/H  
Cold Cranking Amps 275  
Operating Environment 0°F to 140°F

### 12 Cell Model

Dimensions 113MM (L) x 87MM (W) x 100MM (H)  
Weight 1045 grams, 2lb 5oz  
Voltage (Charged) 13.6V  
Amperage 20 Pbeq A/H  
Cold Cranking Amps 410  
Operating Environment 0°F to 140°F

### 16 Cell Model

Dimensions 112MM (L) x 112MM (W) x 103MM (H)  
Weight 1350 grams, 3 lb  
Voltage (Charged) 13.6V  
Amperage 28 Pbeq A/H  
Cold Cranking Amps 500  
Operating Environment 0°F to 140°F

## CHARGING INSTRUCTIONS

**Aerovoltz Batteries come charged and ready to install!**

Aerovoltz Batteries are very different in chemistry and construction from a traditional lead acid battery. Aerovoltz Batteries **do not** require regular maintenance charging and will only lose less than 10% of their total charge over a (12) month period of static use. They are compatible with your vehicle's charging system and can be used in a "total loss" application. Any automotive or motorcycle based charger is acceptable to recharge your Aerovoltz Battery as long as it has a auto-shut off at 14.4v to prevent over charging. If you are using an automatic charger, be

sure that it is not used in a automatic desulfication mode designed for lead-acid batteries, this can damage the cells.

**1.) When charging a Aerovoltz Battery with a traditional aircraft, automotive or motorcycle based external charging device, the following input specifications are recommended:**

**Standard Charge:** 2A @ 13.2-14.4V for approximately 45 minutes or until the battery registers 14.4V.

**Maximum Charge Rate for Standard Aircraft, Automotive or Motorcycle based Charger:**

4 Cell (100-010): 10A @ 13.2-14.4V for 15 minutes or until the battery registers 14.4V.

8 Cell (100-011): 20A @ 13.2-14.4V for 15 minutes or until the battery registers 14.4V.

12 Cell (100-012): 20A @ 13.2-14.4V for 15 minutes or until the battery registers 14.4V.

16 Cell (100-013): 20A @ 13.2-14.4V for 20 minutes or until the battery registers 14.4V.

**2.) When charging with Aerovoltz Battery Management System (BMS) Professional Intelligent Digital Balance Charger:** Please refer to the Professional Intelligent Digital Balance Charger Instructions included with your charger.

**3.) When charging with Aerovoltz Battery Standard Charger:** Connect battery to the charger and plug the charger into a standard wall socket. The Charger body will display a red light if the battery requires a charge. When the battery is completely charged, the light will turn from red to green and the charger will shut off automatically. Do not leave the charger plugged in after the battery is charged. Do not attempt to charge while the battery is connected to other electrical devices.

### WARNINGS:

- ⚠ Do not charge a Aerovoltz Battery above 14.4 Volts. This could damage the battery.
- ⚠ 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 powersports vehicle has a parasitic draw like an alarm or 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.

- ⚠ Do not attempt to charge a Aerovoltz Battery that is below 6.0Volts. A Lithium battery below 6.0V is considered dead.
- ⚠ If the battery is used in a watercraft or extremely wet environment, we recommend the use of dielectric grease in the BMS port to prevent shorting.
- ⚠ Failure to adhere to these charging specifications or exceeding these limits may cause battery failure and will void any potential warranty claim.

### THREE YEAR LIMITED WARRANTY

Aerovoltz Batteries are built by hand in the USA. Each battery is then run through the most stringent quality control standards and bench tested to insure that it performs as advertised. **Aerovoltz Batteries are shipped fully charged and ready to install.** Because of our high level of quality control we offer an industry leading 3 YEAR LIMITED WARRANTY.

- Aerovoltz Battery warranty is for function only. Warranty does not cover physical damage, misuse, or improper charging. Aerovoltz is not liable for any damage to either person or personal property resulting from the use of this product. If the battery is physically damaged in any way the claim will be denied. Aerovoltz extends a warranty only to parts manufactured by Aerovoltz Battery.
- Conditions not covered under warranty:
  - ◇ Hard short of the terminals by direct contact.
  - ◇ Damage from immersion in liquid.
  - ◇ Cell chemistry damage as a result of being drained below 9.0 Volts.
  - ◇ Abuse or physical damage of any kind.
  - ◇ Over charging or damage as a result of a defective or improper external charger.
  - ◇ Over charging or damage as a result of a defective onboard charging system.
  - ◇ Damage from use in excess of cranking capacity.
  - ◇ Damage to terminals due to torque in excess of 5 ft-lbs.
- The 3 Year Limited Warranty is on a pro-rated basis based on the original date of purchase.
  - ◇ 1 – 6 Months – Free Replacement
  - ◇ 7 – 12 Months – 75% discount from retail
  - ◇ 13 – 24 Months – 50% discount from retail
  - ◇ 24 – 36 Months – 25% discount from retail
- All warranty claims are handled by Aerovoltz Battery directly. All warranty claims must be accompanied by the original receipt from your retailer.
- Warranties are non-transferable and meant for the original owner only. Returns will only be accepted from the original owner. A return authorization number must be acquired from Aerovoltz Battery before the battery is shipped. If a battery is received without a Return Authorization Number or without the original invoice then the battery will be returned to the original shipper COD.
- Warranty claim batteries must be in Aerovoltz Battery possession before any replacement battery can be shipped out.
- Each Aerovoltz Battery is only eligible for one warranty replacement. Once a battery has been warranted the replacement item only holds the remainder of the warranty period of the original battery purchased.
- All shipping charges, insurance and any damage incurred during shipping for any and all warranty claims is the customer's responsibility. If the battery is determined to be defective, Aerovoltz Battery will pay for return shipping of the replacement battery back to the customer (within the continental US only) by ground shipping only. If the battery is NOT defective, or the battery originated outside the continental US, shipping back to the customer will be at the customer's expense. Any shipping service other than ground shipping as requested by the customer would be at the customer's expense.
- If the battery is used in sanctioned competition of any kind, abused, or used in a manner for which it was not intended the warranty is void.
- Aerovoltz Batteries reserves the right to deny any and all claims if all conditions and terms are not met.



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