

# Rathbone Energy

## Why our lithium ion batteries will accept charge...

Rathbone Lithium Ion Broadcast Batteries were originally designed with a circuit which would cause another company's Smart Chargers to recognize and charge our batteries. However, the factory we use immediately came back and told me that a number of their competitors were in possible legal scraps with another company over this and they would not install that circuit. Of course, since that is the case, neither will I. I can do better anyway.

a) Because of this All Rathbone Lithium Ion Gold Mount Style Broadcast Battery Chargers are sold at my cost plus incoming freight and a very, very minor markup to cover paperwork. We recommend using an inexpensive gold mount to v mount converter converting you to the industry standard v mount technology.

b) Sony, being the stand up company they are, does not trademark their V mount technology, so every aftermarket vendor of V mount Lithium Ion Batteries and Chargers can simply duplicate the circuitry of Sony V Mount batteries and chargers.

The question then becomes duplication quality. Unlike aftermarket battery distribution companies, Rathbone Energy the battery assembler, uses only the best components inside of our lithium ion broadcast battery packs and chargers.

Rathbone Energy, a battery assembler, as well as all broadcast battery suppliers use some brand and model of the CGR-1865 Lithium Ion cell in our 90WH or 95WH battery packs. All except Sony which is justifiably more expensive, but they overshoot the price margin.

Sony wears their belt and suspenders. When opening a Sony BP-GL95 for diagnostics and engineering purposes we discovered that Sony uses a much larger / beefy lithium ion battery cell. This battery cell could offer more watt hours of run time but instead Sony utilizes a circuit board design limiting the current flow and holding the battery pack output to +/- 90WH of power. Why?

Sony understands the High Load issues involved with today's Broadcast, Production, and Cinema cameras. The consumer only understands what it cost today. If Sony sold their 90WH batteries for say, \$250.00 each new, this would be a fair price for what is the best design in the market, the V Mount technology. We would build the battery but today's user only looks at price, never value.

In 2012 we have had clients tell us they heard that someone lost a V Mount battery off of their mount while shooting. We have had this brought to our attention a few times by clients using Original Gold Mount batteries, aftermarket Gold mount batteries, and V Mount Batteries. Each time we offered to test the mounts and batteries if they were sent to us. When received we sent them to long term clients we knew were very knowledgeable and professional. After weeks of using the batteries themselves these long time clients would always report that they had no problems with either the Gold Mount or V Mount batteries supplied. In each instance the client asking for our help did not have that much time under their belt or a combination of other issues non mount related. The one way we have discovered that this can happen is if the operator is impatient and does not confirm a secure mount before shooting which comes back to an either or unseasoned, sloppy, impatient amateur.

Sincerely,

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[www.rathboneenergy.com](http://www.rathboneenergy.com) (Detailed Product Information for infinite industries)

[www.rathboneenergy.biz](http://www.rathboneenergy.biz) (On-Line Broadcast Store with On-line Specials)

There's a better way - rathboneenergy.com - when cell quality is paramount.