



**SmartSpark®  
Energy Systems, Inc.**



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Imagine a car where the wheels are out of balance and poorly aligned.  
 That's your deep cycle battery bank without **Batteq™**.

### The Cell Imbalance Problem

Even the best battery cells have inconsistencies that worsen with time; some just leave the factory stronger than others. Most power systems add and subtract energy across the entire battery pack. As this happens, the stronger cells get overcharged while the weaker ones are undercharged.  
**Cell imbalance is a major factor in premature battery failure.**

### "Battery Nirvana"

Battery heaven would involve access to the terminals of each and every cell, plus a "black box" that could balance the energy potentials (or voltages) of every cell.  
 This is the ideal, but it's an elusive goal because most batteries don't allow us to connect wires to every cell. It's also tricky to build a "black box" to balance the individual two-volt cells of a lead acid pack.

### A Practical Answer

Thanks to breakthrough technology, **Batteq** from SmartSpark Energy Systems brings affordable real-time balancing to common deep cycle batteries. If necessary, #LA-500-6V-4 can shuffle up to 48 amps within a 24 volt group of 6 volt batteries, for **\$399 MSRP**. This model is ideal for packs of "L-16 floor scrubber" or "golf cart" batteries.

### Two Year Limited Warranty!



(Card Code: 14/10; 70/45)

### Automatic and Continuous Battery Equalization

Electronic balancers aren't the only way to equalize a battery, but the other way is the dreaded "equalization charge" (or EQ charge). Deep cycle battery experts talk about EQ charging, but this method is inconvenient and only marginally effective. Soon after a conventional "EQ charge" is finished, the cell voltages drift apart again.

With "6V" type **Batteq** units installed, all of the L-16's or golf cart batteries in the pack maintain the same voltage at all times. This is important during recharge, of course, **but it's also important during discharge**. Without **Batteq**, your strongest L-16's cannot provide any more energy than the weakest ones can. **Batteq** "robs the rich to give to the poor"; as a result, it allows you to extract maximum energy from the entire pack.

All published prices are "Reference Retail" only. Installation and setup not included.  
 Actual purchase prices are individually negotiated between end users and their retail dealer.  
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### BatteEQ™ is Not a "Desulfator"

**BatteEQ** is not a sulfate dissolver. SD's have their place (on lead acid batteries), but they can't do it all. Even when sulfation problems are addressed, batteries still develop state-of-charge imbalances. These imbalances can cause a battery with a quality "desulfator" to still appear sulfated.

**BatteEQ's** Continuous Charge Balancing<sup>SM</sup> addresses the imbalance problem in real time. SmartSpark testing indicates full compatibility between **BatteEQ** and the leading brand of sulfate dissolver.

### Restricted Availability

**BatteEQ** is not for everybody, and not for every battery. **BatteEQ** users deserve only the best for their batteries, so the following purchase restrictions apply:

- **BatteEQ** is mainly available through local battery professionals who can properly specify and install your balancing system.
- Any retailers who wish to ship **BatteEQ** systems for "do-it-yourself" (DIY) installation must first demonstrate their ability to properly support the product.
- Installation must be done right by qualified personnel. If connected wrong (or disconnected wrong), **BatteEQ** will fail at the expense of the faulty installer. Therefore, every installer (pro or DIY) should not hesitate to seek technical assistance from their authorized **BatteEQ** vendor.

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### Product Support Pack

"Do-it-yourself" end users must get a Support Pack for their first device. This includes five #6 copper wire harnesses, amateur-friendly installation instructions, and unlimited **BatteEQ** support via phone/email. Additional cable sets are quoted on request. Standard harness length is 30", but custom lengths are also available.

MSRP on the model  
LA-500-6V-4 is **\$399 each.**

500-4 Initial Support Pack is **\$49.**  
Additional cables per quote.

Different chemistry? Different pack configuration? Ask your authorized **BatteEQ** supplier for more information.

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