

# Discover<sup>®</sup> ADVANCED ENERGY

Lithium-Ion Battery Systems



**WE KNOW  
THE SECRET  
TO LONG LIFE.**



## **DISCOVER AES PROVIDES 10x THE ENERGY STORAGE CAPACITY OVER LEAD ACID BATTERIES.**

Discover AES LiFePO<sub>4</sub> batteries energy storage systems will significantly outlast lead acid batteries and dramatically reduce your customer's energy storage costs over the life of their system.

### **YOU CAN TELL A LOT ABOUT A COMPANY BY HOW IT DEFINES SUCCESS OR FAILURE.**

Lead acid manufacturers (including Discover) have conditioned you to look at "Temperature vs. Cycle Life" or "Cycle Life vs. Depth of Discharge (DOD)" graphs to indicate expected life or, more accurately, their remaining time to failure, and to overlook the "big elephant in the room", which is that lead acid batteries start to lose their original capacity nearly the moment they are put into service and that the total available capacity in cycle 500 will be much less than the total available capacity in cycle 10.

The industry aggressively contends that "life cycles" are the measure of a batteries quality versus the competition

and its suitability for energy storage use. A successful high quality lead acid battery bank will maintain its ability to deliver its original published capacity for 500 cycles (less than 18 months of daily cycling) only if the batteries are kept cool, not deeply discharged, recharged completely every cycle and watered regularly (flooded cells). In the real world, cycle counting is neither verifiable nor reflective of the real function of a battery bank, which is, storing energy.

Discover AES LiFePO<sub>4</sub> batteries with AEON cycle life technology can be continuously operated in a partial State of Charge (SOC), or alternatively discharged and charged to 100% of its rated capacity without consequence. Discover AES LiFePO<sub>4</sub> batteries will provide > 90% of original energy storage capacity for a minimum of 10x that of a high-quality lead acid bank.

Discover AES LiFePO<sub>4</sub> batteries are warranted by a 10-year, unlimited cycle, 38 MWh total energy throughput warranty providing confidence that Discover's batteries will provide your customers with the long-term, reliable energy storage they are paying for.

Take it from a company that has been designing, manufacturing, distributing and installing lead acid batteries since 1949: Your customers can't afford lead.