



FOR IMMEDIATE RELEASE

1POWER DEBUTS A BATTERY SYSTEM THAT BALANCES INDIVIDUAL CELLS

1Power Inside™—A Battery System with Integrated ICs that Fully Charge Every Cell Row, Every Time

CUPERTINO, California (July 18, 2008)—1Power Solutions, Inc. announces its new patent-pending battery systems that use a proprietary integrated circuit, the Analog Express BP1000, to safely control cell balancing during battery charging. 1Power is the first company to deliver a large system lithium-ion battery pack, the *1Power Pack™*, which integrates this integrated circuit (IC) on each individual battery cell.

“Batteries are like people—age, tolerance, temperature, and capacity vary from cell to cell,” said Alexander Choi, CEO and co-founder of 1Power. “These differences reduce the capacity, lifetime, and safety of the battery. Cell balancing and over-voltage protection are the solutions.”

But most cell balancing schemes require trade-offs in charging time, lost efficiency, and expensive components. “Our added IC cost is less than fifteen cents per cell at volume,” Choi continued. “We get the full capacity of every cell, and guarantee that no cell sees over-voltage.”

Choi concluded, “We believe our IC-based solution can get the most mileage at the lowest cost from any size battery pack. And 1Power can deliver this solution for system integrators worldwide.”

In the *1Power Pack™*, every cell within the battery system rapidly balances within a tolerance of +/- 2mV to protect against overvoltage. In contrast, traditional balancing methods use a row charging and balancing scheme. They either stop charging when the first cell reaches its target voltage, or implement a prolonged algorithm to charge individual cells sequentially— which can mean a tolerance of more than +/- 100mV. A 150 mV difference in cell balance can reduce capacity (think mileage) to 50% of the original value over the life of the battery.

1Power connects the IC in parallel with each battery cell to independently sense when the cell has reached its target voltage. At that point, the IC shunts charge current around the cell, allowing a sophisticated charging algorithm that lets other series connected cell rows continue charging at full rate.

1Power Solutions, headquartered in the San Jose area, promotes its *1Power Pack™* as a revolution in battery pack design, combining IC control on the individual cell level and full-system integration of battery cells, components and electronics. For more information, contact Mr. John Holmes at (866) 620-3586 or info@1powersolutions.com.

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About 1Power Solutions

1Power provides innovative battery management systems and power electronic system components for integrators of hybrid and electric vehicles. 1Power’s integration of battery ICs allows the most cost-effective implementation and best charge performance for large battery management systems. Discover the power of 1Power Inside™ – next-gen power management technology delivering energy-efficient vehicles today. www.1powersolutions.com