

High Performance Electric Motorcycle Developed Based on Innovative Battery Technology

Source: AllCell

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SYNOPSIS: Motorcycle battery has 10.6 kWh of energy and can deliver 72 kW of power.

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Chicago – AllCell Technologies has teamed with two Purdue University engineering students to produce an electric motorcycle with cutting-edge performance and drive range. The 10.6 kilowatt-hour lithium-ion battery incorporates AllCell's proprietary thermal management material, allowing the students to quickly and easily design the high energy density system capable of delivering up to 72 kilowatts of power. Initial testing indicates a maximum speed of over 120 miles per hour and a range of over 120 miles.

In addition to providing manufacturing and design support and equipment, AllCell custom manufactured its phase change material-graphite composite (PCM-graphite) to provide thermal management for the battery cells. The PCM-graphite improves safety by preventing the propagation of thermal runaway if one cell has an internal short circuit. The material also absorbs and distributes heat during discharge and when the bike is exposed to elevated ambient temperatures, protecting the cells and prolonging battery life.

Further support for the vehicle development was provided by Tesla Motors and Delphi Corporation.



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AllCell Technologies offers customized thermal management solutions and battery packs for high power lithium-ion based systems in applications such as hybrid and electric automobiles and light electric vehicles (i.e. electric scooters, electric bikes, and neighborhood electric vehicles). Their patented phase change material (PCM) surrounds each lithium-ion cell to absorb and conduct heat away from the battery, effectively doubling the life of the cells and preventing fire or damage to the battery.

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