

Li-Ion Doesn't Have to be Dangerous

The recent high profile recall of Li-Ion laptop batteries, and other identified incidents of overheated laptop and cell phone batteries, might lead one to think that Li-Ion is an inherently dangerous technology, but this is not the case. The potential danger lies in the quality of the battery's materials and construction, and this is true of any battery, regardless of cell technology.

Choosing Quality

How can broadcasters be sure they are choosing a quality system when the battery provides few outward indicators? Some companies re-brand cheap imported batteries, which leave vital safety features out of their construction. Price cannot always be taken as an accurate indicator of quality.

BEWARE: There are many companies making bogus claims regarding safety compliance, often quoting a test report number obtained by the cell manufacturer, which does not apply to the assembled pack.

Safety First

PAG's Research and Development Department set out to design the safest possible Li-Ion battery from the outset, before much of the present legislation existed. The PAG L95 is built to a safety standard which is still far and beyond the requirements of current safety legislation. The PAG L95 has been independently tested and certified to comply with United Nations regulations for air transportation, all without any changes necessary to the product design.

Protection Features

PAG Li-Ion batteries are protected against: over and under voltage, over current, over charge, over discharge, over and under temperature, and inappropriate charge sources. Each protection feature has at least one back-up, and all are fail-safe.

Li-Ion Electrolyte

The PAG L95's casework is durable, impact-resistant, fire-retardant and chemical-resistant. Internal circuits of PAG's Li-Ion batteries are coated with Parylene, the premier conformal coating that is resistant to Li-Ion electrolyte. Electrolyte can leak from the cell pack under certain fault conditions. Poorly designed and uncoated circuits can ignite leaked electrolyte, whereas the protected PAG battery will remain safe and only suffer a loss of performance.

David Hardy, PAG's Quality and Technical Director says "As far as we are aware, no other battery contains as many safety features as the PAG L95. PAG will continue to produce quality products for a television industry that requires products to be safe in all situations".

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