eNews from Rose Electronics

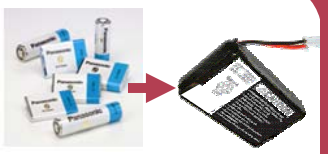
October 2007

800-632-4789 Custom and Off-the-Shelf High Technology Battery Solutions

Applications

Rose Knows: The right chemistry for the right project

Confused over which cell chemistry is most appropriate for your application? OEM products vary in operational needs, and cell chemistry performance varies depending upon usage. Understand more about the benefits and drawbacks of Ni-Cd vs. Ni-MH vs. Sealed Lead vs. Li-Ion for your OEM product by ***contacting a technical expert at Rose Electronics.*** Get the straight answer from Rose for all of your battery needs. **Contact Rose** today!



BUILD A BATTERY

Need to go from cells to a custom lithium ion battery pack? See which battery configuration option is the best suited for your application! Go to the Rose Electronics website and check out our new battery builder to create your custom pack today!

Products

High Drain Lithium Polymer cells from Kokam

The unique folder-to-folder construction of Kokam's lithium polymer cells means significantly reduced internal impedance so cells can be discharged up to 20C continuous with 50C pulse! Charge rate is up to 3C, and the temperature range is from –30°C-60° C! Per-cell capacities range from 20mAh to 250Ah; the fully automated manufacturing process guarantees consistent performance and quality. Medical, Military, HEV, Power Tool and other applications requiring high drain capability are well suited to Kokam. Contact Rose for further information!

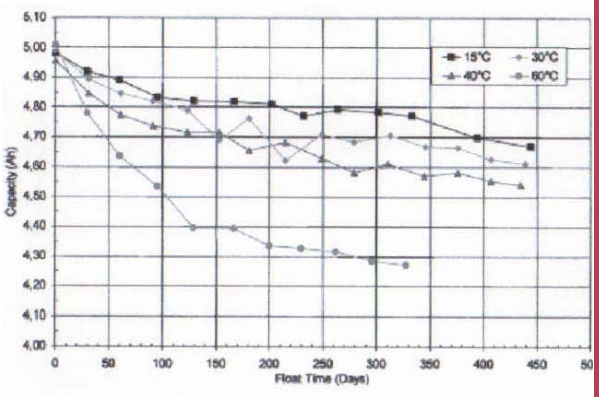
Did you know?

The rules for shipping all lithium batteries are changing! New DOT and ICAO-IATA rules have recently been finalized. Contact Rose for your updated set of HMR rules and changes to lithium shipping regulations to see how you are affected.

Rose Knows Batteries - Technology Notes

Non-recoverable Li-Ion degradation over time depends on storage temperature

Li-Ion capacity will degrade over time. Mechanisms for capacity loss do not require that the battery be charged or discharged. The capacity will decrease even without cycling. Degradation is accelerated at higher temperature and higher voltages. The chart here illustrates the effect of higher temperatures on non-recoverable self discharge; state-of-charge also has an effect. Storage at 30-50% SO and <25°C is generally recommended.



Make sure you know the latest transport rules for lithium batteries. Visit www.rosebatteries.com

About Rose Electronics

Rose is a leading supplier of batteries and power solutions for the **GPS mobile systems**, **medical device**, **industrial field service equipment** and **enterprise storage solution** marketplaces. Rose has earned the trust, respect and loyalty of some of the most demanding OEMs. Call us at 1-800-632-4789 or visit www.rosebatteries.com.

Thank you for reading the Rose Batteries eNewsletter