Specially Modified Lithium Battery Supports the Cold Chain

Tadiran, a leading manufacturer of lithium batteries, has developed long life 3.6 V lithium thionyl chloride cells capable of delivering continuous around-the-clock power for 20+ years in temperatures as low as -80ºC. Currently employed in data loggers and sensors, these batteries support the demanding requirements of the cold chain, including foods, medical supplies and medical samples that are frozen or packed in dry ice. Batteries modified for the cold chain are available in 1/2AA, 2/3AA, AA, C, D and DD cylindrical cells, as well as wafer cells and battery packs.

Tadiran lithium thionyl chloride cells use a non-aqueous electrolyte that can withstand temperatures down to -55ºC., which is ideal for data loggers. Cells modified to withstand -80ºC. temperatures are ideal for sensors that require high capacity, high energy density and extremely long life in cold environments. These batteries feature:

- Higher voltage (3.6V)
- 2X the energy density of other leading chemistries
- Service life of 20+ years
- Small form factor
- Glass-to-metal hermetical seal (not crimped elastomer gasket)
- ISO-9001 certified and UL-recognized

The development of a long-life lithium battery designed for the cold chain is a major advancement, as power management system failure caused by extremely cold temperatures can compromise system performance and data integrity. Tadiran’s

new battery provides the ideal solution wherever reliable performance is needed.

Tadiran manufactures a complete line of lithium thionyl chloride batteries, including a variety of primary cylindrical batteries, Pulses PlusTM batteries for high current pulse applications, TLM Series for high power and high energy applications, TLH Series batteries for high temperature applications up to +125ºC., coin-sized cells and custom battery packs. Tadiran products are available in a variety of terminations and assemblies.

For information on specially modified lithium batteries for the cold chain, contact Tadiran at 2 Seaview Blvd., Port Washington, NY 11050. Tel: 1-800-537-1368, (516) 621-4980 Fax: (516) 621-4517, Web: www.tadiranbat.com [1]

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