



Tracking sensors keep tabs on cable drums

Saft's lithium batteries providing power to high-value asset tracking device, to reduce logistics costs

Key benefits for ffly4u

- Compact and long life tracking solution
- Proven reliability in the harsh working environment experienced by cable drums
- Risk mitigation with the choice of mature technology

Features of Saft's power solution

- Six-year operational life achieved thanks to 560 Wh/kg energy-dense cell
- Wide operating temperature range (-60°C / +85°C)
- 30-year track record in Li-SOCl₂ primary lithium battery technology

The challenge: Providing reliable power for wireless sensors deployed on large cable drums

Nexans, one of the world's leading cable companies, has been challenged by one of its long-term customers to provide them with the location and remaining length of cable available on a fleet of around 40,000 cable drums, dispatched in various workplaces. It turned to manufacturer of embedded systems ffly4u to develop tiny battery-powered sensors to ensure that cable drums are never lost or abandoned, and achieve 20% reduction on some logistics costs. Thus, ffly4u developed

a device that connects wirelessly to a cloud-based management system and that provides real-time information on the drum's location and status. The challenge for ffly4u was to find a battery capable of meeting the required 6-year design life combined with total reliability in the harsh, outdoor working environment and temperature variations.

The solution: Saft's LS batteries

Saft's LS 14500 is the only type of battery that could meet ffly4u pulse current requirements without the support of additional components such as capacitors.

In addition, their proven reliability even in demanding temperatures and environmental conditions ensures complete peace of mind for wireless applications. As a result, LS 14500 enabled ffly4u to create a compact and reliable device.

“The long-term success of the cable drum tracking system developed for Nexans will depend totally on the performance of the reliable sensors. The choice of battery was a critical factor. There could be no compromise on quality. That's why we have selected Saft.”

Olivier Pagès, CEO of ffly4u



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