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Saft partners with DCPower4C to roll out high performance Li-ion power supplies for mobile medical carts

Saft MP Integration™ xtd rechargeable lithium-ion (Li-ion) batteries are at the heart of the Circadian® lightweight, universal hot swap DC battery system for mobile medical equipment

Dusseldorf, November 14, 2016 - Saft is partnering with the Dutch start-up, DCPower4C, on a groundbreaking development that eliminates the problems of unreliability and short life typically experienced by mobile medical carts powered by traditional lead-acid batteries. The innovative Circadian® System uses Saft's innovative MP Integration xtd Li-ion cell technology as the basis for a lightweight, universal hot swap battery system capable of providing reliable 24-7 power. This hot swap capability enables the batteries to be changed while the equipment remains powered up.

"Hospitals are crying out for reliable, long life battery solutions and smart maintenance control. Yet most Li-ion packs in use today are made from cells for the consumer market. That means they are not capable of meeting the intensive operational demands of mobile medical applications. The result is that healthcare providers cannot fully achieve the efficiency and patient outcome benefits promised by implementation of digital technology," says Martyn Sly-Jex, Sales Director at DCPower4C. *"With Saft Li-ion cells as an integral part of our Circadian System we are finally able to address this issue. It's not just about the massive battery system TCO (Total Cost of Ownership) benefit, it's about hospitals realizing the return on investment of going digital - that's the prize."*

Self-powered EPD carts and medication carts capable of long periods of autonomous operation are key components in the current trend to implement digitization and connectivity throughout hospitals. The aim is to improve efficiency, reduce costs, and significantly improve patient outcomes. However, medical carts present a significant challenge for both consumer grade Li-ion and lead-acid batteries due to their high cycling requirements, with large numbers of charge/discharge cycles. The result is that battery power is consistently identified as the single most problematic issue with mobile equipment in a clinical setting. This situation is now set to change thanks to the Circadian System that uses Saft's new MP Integration xtd Li-ion cell technology. Not only is it much lighter than a lead-acid battery, it offers significant improvement in performance and reliability, with a long and predictable service life of up to six years.

The Circadian batteries are available in three optional capacities of 80, 160 and 200 Wh. Depending on the equipment power load, customers can opt for one to four batteries on a cart, with two being the ideal hot swap mix. A five LED display enables hospital staff to easily identify both the battery's state of charge (SOC) and state of health (SOH) which is a real innovation for maintenance.

Saft is supplying its new MP Integration xtd cells, rated at 5.6 Ah and 3.75 V, for DCPower4C to assemble into battery packs according to its stringent safety rules. DCPower4C selected Saft's latest Li-ion technology for its unparalleled operating life and exceptional performance stability when used under permanent charge or frequent charge/discharge cycles. A key factor in favor of the Saft MP



Integration xtd cells was also that they offer the highest level of safety with compliance to the UN 38.3, UL 1642, IEC 62133 Edition 2 and IEC60079-11 standards.

Saft is ISO 13485 certified, covering the development, production and quality control processes for medical devices and their components.

About Saft

Saft specializes in advanced technology battery solutions for industry, from the design and development to the production, customization and service provision. For nearly 100 years, Saft's longer-lasting batteries and systems have provided critical safety applications, back-up power and propulsion for our customers. Our innovative, safe and reliable technology delivers high performance in space, at sea, in the air and on land. Saft is powering industry and smarter cities, while providing critical back-up functionality in remote and harsh environments from the Arctic Circle to the Sahara desert.

Designed for industry. www.saftbatteries.com



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