

UL-Certified Ultracapacitors Launched for Warehouse Robotics and Smart Factories

Grossröhrsdorf, Germany, 27th of November 2019. Skeleton Technologies, the European market leader for ultracapacitors and ultracapacitor energy storage systems for automotive, transportation, and grid applications, is bringing to market a new ultracapacitor product platform, the SkelCap SCA0300, to address the fast-growing markets in manufacturing and warehouse logistics.

The strict power quality requirements in manufacturing are driving the demand for ultracapacitor-based UPS solutions, and the SCA0300 product platform is ideally suited to systems ensuring high power quality to protect sensitive manufacturing equipment.

The growth of warehouse and fulfillment center robotics is driven by the rapid growth of e-commerce. Changing consumer behaviour and expectations of quick deliveries are creating new opportunities for ultracapacitor-powered solutions in intralogistics where shuttle and AGV (Automated Guided Vehicle) manufacturers are replacing batteries with ultracapacitor solutions due to power, reliability, and lifetime advantages.

At 300F, the new product platform is Skeleton's answer to one of the most popular ultracapacitor sizes on the market and is designed to be easily mountable to PCB boards, allowing efficient assembly for a variety of applications. The high power and excellent thermal characteristics of SCA0300 are the result of the low ESR, or internal resistance, of the cell – something of a Skeleton Technologies specialty.

“The decision to develop a product platform in the 300F size and form factor came down to significant interest from the market, proven by the various applications already utilizing this cell size. The advantages provided by our low resistance and our patented manufacturing technologies make the SCA0300 the leading product platform in terms of power density, low heat generation, and lifetime.

We have already made a successful market entry in the elevator market by reducing energy consumption of elevators, together with Epic Power, and are proud to be saving energy by tens of percents in elevators, both for new installations and in retrofit projects around the world.”, said Dr. Sebastian Pohlmann, Head of Cell Development at Skeleton Technologies.

The central location and modern production technologies applied at Skeleton Technologies' production facility in Saxony, Germany, provide further advantages to customers for the cell packs and modules based on the new product platform.

“The new SCA0300 product platform, combined with our ultracapacitor management system and modern production processes, enables us to provide reliable, state-of-the-art ultracapacitor modules at a cost-efficient price point, while still maintaining the highest performance and quality in the industry”, explains Taavi Madiberk, the CEO of Skeleton Technologies. “The SCA0300 also complies with the strict IATF standard used in the automotive industry, ensuring the safety, quality, and reliability required in passenger vehicles, and also meets the requirements of applications in medical machinery, oil & gas, grid, and renewable energy production.



PRESS RELEASE

About Skeleton Technologies

Skeleton Technologies is the global leader in graphene-based ultracapacitors and energy-storage systems. We deliver high power, high energy, reliable and long-life storage solutions across the industry. Through the use of patented 'curved graphene', we have achieved global breakthroughs in ultracapacitor performance and successfully commercialized our ultracapacitors, in trucks, buses, and grid applications.

Since our foundation in 2009, we have raised over 60 M EUR to support manufacturing scale-up in Germany and in Estonia and grown our headcount from 4 to more than 130 people.

Our ultracapacitor technology delivers up to twice the energy density and 4 times the power density offered by other manufacturers. Our current customer base ranges from leading Tier One automotive firms and industrial equipment OEMs to truck fleet operators and aerospace prime contractors.

Press Contact (English):

Jussi Pikkarainen
+358 40 144 2277
jussi.pikkarainen@skeletontech.com

Skeleton Technologies OÜ
Öpik II house, Valukoja 8
11415 Tallinn
Estonia
info@skeletontech.com
www.skeletontech.com

Press Contact (German):

Moritz Wolff
+49 89 5329 5737
moritz.wolff@harvard.de

Harvard Engage! Communications GmbH
Heimeranstraße 68
80339 München
Germany

