May 11th, 2026

Dear All

RS Technologies Co.,Ltd
Security Code:3445

LE System's Power Conditioning System Obtains German VDE Prototype Certification

RS Technologies Co., Ltd. hereby announces that the LE-FEBS 500 power conditioning system developed by LE System Co., Ltd. (Head Office: Shinagawa-ku, Tokyo; CEO: Issei Osawa), a group company of RS Technologies, has obtained prototype certification under the German VDE standard.

A power conditioning system is an essential component for grid connection, as it controls and converts electricity charged to and discharged from storage batteries. The "LE-FEBS 500" is a proprietary product developed specifically for Vanadium Redox Flow Batteries ("VRFB").

The VDE certification obtained this time is based on the safety and quality standards established by the German Association for Electrical, Electronic & Information Technologies, and primarily evaluates the safety and reliability of electrical and electronic products.

VDE certification is granted only to products that successfully pass rigorous safety tests, including protection against electric shock and fire hazards, and is widely recognized and trusted throughout the European market.

According to the company's research, this is the first case in Germany in which a power conversion system for VRFB applications has obtained VDE certification.

In Europe, the expansion of renewable energy adoption has accelerated initiatives combining renewable energy generation, energy storage, and power grid enhancement. In particular, growing demand for long-duration energy storage and grid stabilization solutions has rapidly increased expectations for VRFB technology, which offers long service life and high safety performance.

Furthermore, as awareness increases regarding the safety concerns, resource constraints, and environmental impact associated with lithium-ion batteries, VRFB is attracting attention as a promising next-generation large-scale energy storage solution, with significant future market growth expected.

Leveraging this certification, the RS Technologies Group intends to further promote expansion into the VRFB-related market in Europe, including Germany, and will continue accelerating the deployment of energy storage systems centered on VRFB electrolyte solutions.

VRFB is superior in terms of service life and safety (our company's research)

Comparisons	VRFB	Lithium-ion battery
Safety	◎ Non-flammable electrolyte	△ Ignition Risk
Expected Life	◎ 20 years or more (Electrolyte can be used semi-permanently)	△ About 10 years
Cycle Life	◎ Unlimited (50,000 cycles or more)	△ About 4,500 cycles

Company Profile

RS Technologies

Company Name : RS Technologies Co., Ltd (Security Code3445)
Representative : CEO Nagayoshi Ho
Established : December, 2010
Headquarters : 17F, NT Building, 1-47-1 Oi, Shinagawa-ku, Tokyo, 140-0014
Official Website : https://www.rs-tec.jp/

LE System

Company Name : LE System Co., Ltd
Representative : CEO Issei Osawa
Headquarters : 17F, NT Building, 1-47-1 Oi, Shinagawa-ku, Tokyo, 140-0014
Manufacturing site : 161 Aza Nakagaminohara, Oaza Kawazoe, Namie-machi, Futaba-gun, Fukushima, Japan
Established : October, 2023
Official Website : https://www.lesys.jp/