

## **Leroy-Somer announces the expansion of its LSA 44.3 and TAL 044 product lines, reaching 200 kVA in power with improved performance.**

*These new models are the result of several years of research and development. They allow for the first time to produce a power of up to 200 kVA from a LSA 44.3 / TAL 044, while offering genset manufacturers significant gains in efficiency, footprint and transient performances.*

For the development of these new products, no less than 8 Leroy-Somer patents have been registered or exploited, particularly on technologies related to electrical engineering, mechanics, cooling technologies and fluid mechanics.

The new models introduced are

- LSA 44.3 VL13 & TAL 044 L for the 180 kVA BR power node.
- LSA 44.3 VL14 & TAL 044 M for the 200 kVA BR power node.

These products are suitable for all types of power generation applications and deliver high performance, providing new opportunities for generator sets manufacturers.

The LSA 44.3 VL13 and VL14 alternators benefit from a 93.4% and 93% efficiency at 0.8 PF respectively, which represents a significant improvement over the LSA 46.3 S2 (91.9%) and S3 (92.5%). Transient performance and footprint have also improved. The same progress is observed on the TAL range.

In terms of power density, these new generators have the best characteristics of the market with unparalleled compactness for this level of power.

These machines will be equipped as standard with a Shunt excitation system. Options for AREP (auxiliary winding) or PMG (permanent magnet) excitation are also available with the new Leroy-Somer D350 digital controller for the LSA range and the R180 for the TAL range.

These alternators are designed to be compatible with all existing engines on the market for these power nodes. They will be offered with a standard axis height of 270 mm, but have an option for 280 mm, which allows them to replace LSA 46.3 and TAL 046 models.

"This project is the culmination of several years of research and development" said Wenbin Ding, product manager for the low-voltage range "As we mastered new technologies, we could achieve this level of performance and power in this frame size. Ten years ago it would have been impossible, but thanks to our efforts in fundamental research, we have been able to push the limits in cooling technologies and inertia. The most interesting part is that these advances have opened new doors that will allow us to go even further. "

The LSA 46.3 and TAL 046 models delivering the same powers (LSA 46.3 S2 and S3, TAL 046 A and B) will be gradually withdrawn from the market.

### **About Leroy-Somer Electric Power Generation**

Leroy-Somer Electric Power Generation Europe and Asia Pacific (EPGE), a business unit of the Nidec Group, is a leader in industrial alternators with power ranging from 10kW to 25MW, focusing on Europe, Asia and Africa markets. With its two leading brand, Leroy-Somer and Kato Engineering, EPGE works with generator set manufacturers and electric power producers in these areas to help the industry provide reliable and efficient power solutions. EPGE has over 2,000 employees, 7 production sites worldwide and a global service network.

### **About Nidec**

Nidec, the parent company of Nidec Leroy-Somer Holding, was established in Kyoto, Japan in 1973 by its Chairman and CEO Shigenobu Nagamori. In 1979, Nidec became the first company in the world to successfully commercialize a direct drive spindle motor for HDDs based on a brushless DC motor. Since then, the company has grown into a world-leading comprehensive motor manufacturer encompassing more than 300 subsidiaries employing over 100,000 people throughout the world and with annual sales exceeding €11B. Nidec's motors, drives, generators and related products are found in a diverse range of applications including computers, smartphones, home appliances, automobiles, manufacturing plants, robots and more.



*Leroy-Somer LSA 44.3 VL14 industrial alternator*



*Leroy-Somer TAL 044 M industrial alternator*