Nidec Leroy-Somer announces the D550, a digital voltage regulator (AVR) designed for complex or grid-connected installations.

The D550 is a digital voltage regulator (AVR) for alternators with SHUNT, AREP or PMG excitation with a nominal excitation current intensity up to 7A-70°C and 8A -55°c (15 A in case of short-circuit for a maximum of 10 seconds). The D550 includes a wide range of regulation modes suitable and essential for all power generation applications, including the ability to manage "Grid Code" network configurations.

Within Leroy-Somer's range of digital voltage regulators, the new D550 replaces the D510C and adds to the D350 (excitation up to 5 A) and D700 (25 A) to provide a complete offer with features and performance adapted to the era of network digitalization.

The D550 can be configured and managed using Leroy-Somer's new EasyReg Advanced software, which allows users to read configuration values. Most importantly, the communication port is CANJ1939 compatible and the settings can be configured directly via a USB port without external power supply.

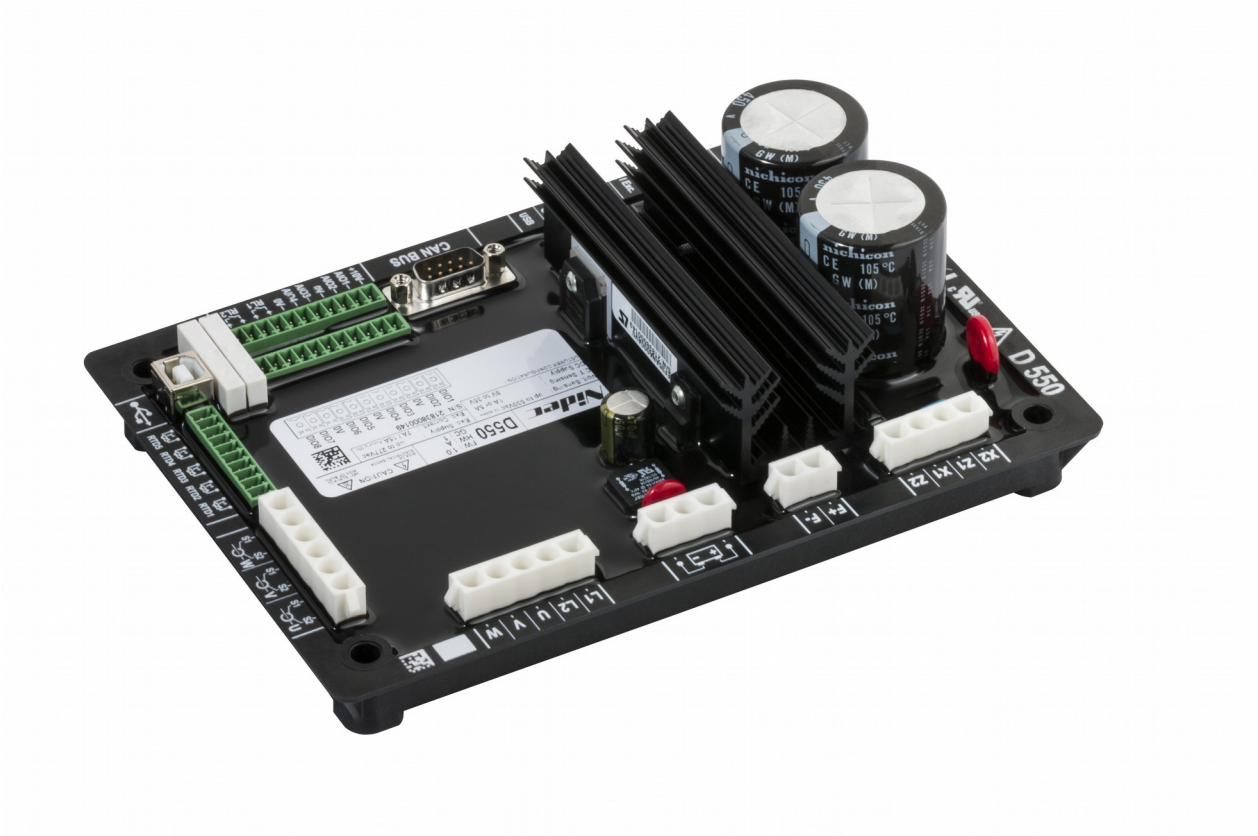
In addition, the D550 has several regulation features that include voltage equalization, droop management for alternator parallel-operation, and crosscurrent compensation. It incorporates a LAM function to provide assistance during load impacts and negative forcing.

Furthermore, the D550 has additional features such as an optional data logger, event logger and the ability to have up to five PT100 probes for temperature measurement. It also includes an incremental encoder input for the angular position of the rotor with the Easy Log PS option.

The D550 features several protection modes and functions that allow alternators to operate safely. It has been designed to be installed either in a terminal box or in an electrical control cabinet. It ensures adequate protection and safety conditions for electrical installations.

Besides, the D550 is equipped with several electrical features that measure the alternator's voltage and current, as well as the grid voltage. As other strengths, the D550 has an auxiliary power supply and a frequency range of 30-400 Hz. It has a set of digital and analog inputs and outputs for regulation mode control, operating data and setpoint corrections.

The D550 is CE, Marine, UL&CSA certified.



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.

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 brands, 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.