

Press Release



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Innovative high-voltage supply modules for air pollution preventers with small and large electrostatic filters

Electrostatic filters are used in industrial enterprises to clean exhaust air from aerosols, finest dust particles as well as waterlogged exit air containing tar and/or oil. These filters also become increasingly important for reducing the particulate matter content in the exhaust air of wood and woodchip heating systems. With two new series of high-voltage supply modules, REMO-HSE Hochspannungselektronik GmbH covers all requirements of both small and large electrostatic filters regarding output voltage, output power and electronic control.

High-voltage supply modules of the **MSR Series** from REMO-HSE are robust, compact and designed for smaller electrostatic filters. The MSR Series comprises four units with an output power of 30 W, 60 W, 90 W or 120 W; the nominal output voltage, with either positive or negative polarity, can be set between 5 kV and 30 kV. Both output voltage and output current can be set to any value between 0% and 100% of the related nominal value, depending on the design either by a simple potentiometer or via an analogue interface. Optionally, all modules are also available with a second high-voltage output for the collector.

Additional features include soft-start and spark protection. Depending on the type, a potential-free relay contact for the “load” status information and two LEDs for displaying status information (over-temperature, constant voltage /constant current) are provided additionally.

Compared to the MSR Series, the modules of the **MMR Series** provide more connection and control features and cover a much wider voltage and power area. Currently available are designs with 60 W, 120 W and 400 W output power at a positive or negative output voltage of 5 kV to 120 kV. All units of the MMR Series are equipped with a wide-range power supply with PFC and provide soft-start as well as spark detection with spark counter. A particular advantage of this series is that the modules can be connected in parallel for higher output power. Three LEDs as well as two potential-free relay contacts provide status information about the high-voltage, the load and the temperature. In addition to adjusting the output voltage and output current, the modules of the MMR Series also allow for adjusting the current-/voltage characteristics (e.g. soft response).

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Depending on the design, these settings are either performed via a potentiometer and/or an analogue input. An optional communication module provides interfaces to the most common PLC and industrial bus communication standards.

All modules of both series are short-circuit proof against ground, automatically switch off at over-temperature and are protected against overvoltage and over-current by a self-acting transition between constant voltage and constant current regulation.

Further information can be obtained from the Internet: <http://www.remo-hse.de>

<<Caption>>

The high-voltage supply module MMR-SP-400-N60-6.6m-P (60 kV, 400 W) from REMO-HSE can be controlled by a simple potentiometer as well as by a PLC or via an industrial bus.



<<Company profile of REMO-HSE >>

Since its formation over 27 years ago, REMO-HSE Hochspannungselektronik GmbH has been actively working in all fields of application for high-voltage equipment except power engineering. The company specialises in putting comprehensive projects into a marketable reality – from the first ideas to a product, ready for serial production. As there are never two identical applications, the medium-sized company has been specializing in customer-specific developments ever since. REMO-HSE is based in Rattiszell near the roman-founded city of Straubing on the Danube in Central Bavaria.

The bandwidth of applications of the company's developments stretches from industrial facilities for electrostatic surface coating, across electrostatic filters for clean rooms and ionisation of gases for medical purposes to X-ray and particle-beam technologies, to delay lines for radar. However, REMO-HSE does not only supply high-voltage supply units, but also the related instrumentation, components like high-voltage capacitors or cables as well as sensors for measuring the thermal flow.

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