

Generator M / M2 - Series



FIELD OF APPLICATION

Modular design allows previously unknown flexibility combined with high reliability

Failure of one module does not mean down time, just a reduced output power (based on module power)

The ability to combine modules makes it possible to manufacture generators with almost any output power

For many years, AFS has set the highest standard in generator design for the corona treatment industry, with continual innovation, high flexibility and robust designs. They are built to offer the highest efficiency, user-friendliness and reliability. All generators operate with the same innovative technology, AFS has developed and improved over many years. They operate with the highest efficiency at the resonant frequency, ensuring the longest possible operating life and the greatest output energy yield from the mains supply.

The new AFS M-series generators represent the latest available technology for high voltage generators for a power range of 6 - 96 kW (M1 generator) and 2 x 3 - 2 x 24 kW (M2 generator). The M2 generator includes two independent inverters (individually controlled outputs) which are mounted in the same cabinet and use the same power supply.

Intuitive Operation

The proven ergonomically-designed single control knob operation has now been combined with a touch screen, so that the new generators design allows even simpler and more intuitive operation. The advanced software includes a menu system and a data interface, which provides the operator with maximum accessibility and optimal process control.

Reliability

Reliable monitoring circuitry effectively protects the high quality electronics. This ensures a long product life for AFS components as well as a maximum reliability.

Efficiency and low operating costs

Optimal operation at resonant frequency and the use of low-loss components provides maximum efficiency and minimum heat losses well above the standard.

Optimal Process Integration

A variety of hardware interfaces and software solutions are available for seamless integration in your process and production systems.

TECHNICAL DETAILS

Power Range	6 - 96 kW (M1-Generator), 2 x 3 - 2 x 24 kW (M2-Generator)
Corona Frequency	15 - 35 kHz
Mains Voltage	3 x 380 - 3 x 440 V / 50 or 60 Hz
Ambient Temperature	max. 40° C
Standard Equipment	Operator memory, operation hours counter, diagnostic memory, intermittent operation input, power measurement and report in Watts, power regulation, cooling fan, visual alarm, programmable speed threshold roller rotation monitor, RS232 interface (2 items), switched output for exhaust control, self-diagnostics, set-point range limiting, selectable warning signal output (230 V, 500 mA or potential free), temperature monitoring, TFT-Display
Optional Equipment	Bus connection (CANopen, Ethernet, Profibus, Profinet, etc.), Corona Pro, Electronic Intermittent Operation, external display, remote control, generator PLC interface FSo4, air conditioning unit (for ambient temperatures > 40° C), Power Remote Control and Monitor (0...20 mA, 4...20 mA, 0...10 V), Look Back Option (surcharge for option), Wet Start, Power Proportional Control, service socket (for connection of an external display), signal horn for fault messages, signal lamp for fault messages (flash light), Mains Step Up/Down Transformer (used for special mains voltages)
Dimensions (Cabinet)	2200 x 600 x 600 mm (H x W x D) - Generators 6 - 24 kW 2200 x 1200 x 600 mm (H x W x D) - Generators 25 - 48 kW other Dimensions on request
Weight	approx. 50 - 700 kg, based on generator type
Colour	RAL7035 light grey, structured (others on request)