

## IMPULSE MAGNETIZER M-SERIES



### • Description

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The new M-Series with a maximum energy of 5000 Ws perfectly completes our magnetizer program. It offers the functionality and configurability of the X-series in a smaller mobile cabinet.

The magnetizers are easy to use. Inputs and settings at the operating panel can be effected while sitting or standing.

Magnet-Physik only uses brand named components in the construction of the M-series. This helps to assure quality and long life. The magnetizers are equipped with several safety features and offer high process security.

## ● Technical details

Type of discharge: (combinations possible)	aperiodically damped Sine half wave (optional) Damped oscillation (optional)
Maximum energy:	5000 Ws
Maximum voltage:	2000 V
Voltage setting:	Accuracy in the range of 200 V – 2000 V: $\pm 30$ V Accuracy in the range of 30 V – 2000 V $\pm 0,1$ V (optional)
Maximum current:	approx. 25000 A (depending on fixture connected)
Cycle time:	1 – 6 s (depending on energy and charging capacity)
High current outputs:	Standard: 1, Optional: 2
Internal PLC:	Simatic® PLC S7, Software updates via Micro Memory Card
Operation:	Instruments (Potentiometer, Analog display, „Start“-key) Fully graphic 5.7“ STN-Touch panel (optional) Remote control via interfaces (RS232 C, 20 mA TTY, RS 485, Profibus etc. optional)
Current monitoring:	Measurement and control of impulse current (optional)
Supply:	1-phase: 230 V AC $\pm 10$ %, 50/60 Hz, 16 A 3-phase: 400 V AC $\pm 10$ %, 50/60 Hz, 32 A other supplies possible
Weight:	approx. 200 kg (depending on model type)
Dimensions	
- Width:	710 mm
- Height:	1100 mm
- Depth:	800 mm

## ● Safety functions

Safety is a key area for Magnet-Physik. Operation without interruption and protection of the operator.

All basic functions are controlled continuously by the PLC. The voltage at the capacitor banks are monitored by the PLC and additionally by a separate circuit. In case of a fault or interruption from mains the capacitors are discharged automatically. The magnetizers are equipped with two of these circuits. The PLC also monitors the charging unit and in case of a failure it separates it from the mains and controls the automatic capacitor discharge.

Magnet-Physik fixtures are equipped with thermocouples that allow monitoring of the fixture heat. A second internal switch also will open should excessive heat build up.

One emergency-off switch is on the operating panel of the magnetizer. A second can be connected externally.

For further information contact our sales.