

M-SERIES M200



RF PEAK POWER UP TO 5 MW

MODULATOR PEAK POWER UP TO 14 MW

This stand-alone pulse modulator is designed to handle magnetrons in the range 2.5 MW to 5 MW in a very compact enclosure. We provide everything from a pure high-power pulse modulator to a turn-key RF station including the magnetron, control system and related components. M200 is also available as a dual version (see M200D).

EXCELLENCE IN PULSED POWER

SYSTEM SPECIFICATIONS	UNIT	DATA	NOTES
Magnetron RF Peak Power	MW	2.5–5	Depends on choice of Magnetron
Magnetron RF Average Power	kW	3.5	Maximum
Modulator Peak Power	MW	14	Maximum
Modulator Average Power	kW	16	Maximum
Pulse Voltage	kV	40–75	Typical range
Pulse Current	A	30–250	Typical range
Pulse Repetition Frequency Range	Hz	0–500	Typical range. Depending on max average power.
Pulse Length	µs	0.5–5	Typical range. Depending on max average power.
Modulator Voltage Stability, RMS	%	0.4	Verified on resistive load (see options)
Cooling		Water	

INTERFACE	DEFAULT	OPTION
Mains Power, 3 Phase	400 VAC, 50/60 Hz	208/380/480 VAC
Mains Power, Single Phase	230 VAC, 50/60 Hz	115 VAC
Control Interface	ModBus TCP	
Water Cooling Interface In/Out	Legris Push-in 12 mm	Swagelock 12 mm
Trig Input	Electrical	
Diagnostics	Pulse Voltage and Current	See Options

Standard Modulator Includes

Control System
Remote Control
Filament PS
Pulse Sensors
Internal Trig Generator

Additional System Components

Circulator & RF Loads
Directional Coupler
Magnet PS
Waveguide windows
Magnetron

Typical Magnetron Loads

BVERI
VE2116
E2V
MG5028
MG8076

GLVAC
GLM8028

Can also power klystrons

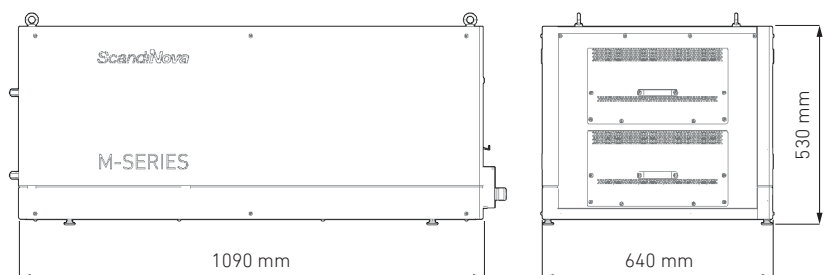
Options

Pulse/RF diagnostics
Enhanced PRF Range (1000–2000 Hz)
Enhanced Stability (down to 0.1%)
Digitizer
Gunport

Size and Weight

Weight approx. 200 kg
(incl. oil)

*Information contained in this document
is subject to change without notice.*



M-SERIES M200D



RF PEAK POWER UP TO 5 MW

MODULATOR PEAK POWER UP TO 14 MW

This dual-energy pulse modulator is designed to handle magnetrons in the range 2.5 MW to 5 MW in a very compact enclosure. Our dual-energy models are for applications where there is a need to switch between two different types of energy levels. We provide everything from a pure high-power pulse modulator to a turn-key RF station including the magnetron, control system and related components. M200D is also available as a single-energy (stand-alone) version (see M200).

EXCELLENCE IN PULSED POWER

SYSTEM SPECIFICATIONS	UNIT	DATA	NOTES
Magnetron RF Peak Power, High	MW	2.5–5	Depends on choice of magnetron
Magnetron RF Peak Power, Low	MW	1–3	Depends on choice of magnetron
Magnetron RF Average Power	kW	7	Maximum
Modulator Peak Power, High	MW	14	Maximum
Modulator Peak Power, Low	MW	6.2	Maximum
Modulator Average Power	kW	16	Maximum
Pulse Voltage	kV	40–75	Typical range
Pulse Current	A	30–250	Typical range
Pulse Repetition Frequency Range	Hz	0–500	Typical range. 2x250 Hz. Depending on max average power (see options).
RF Pulse Length	µs	0.5–5	Typical range. Depending on max average power.
Modulator Voltage Stability, RMS	%	0.4	Verified on resistive load (see options)
Cooling		Water	

INTERFACE	DEFAULT	OPTION
Mains Power, 3 Phase	400 VAC, 50/60 Hz	208/380/480 VAC
Mains Power, Single Phase	230 VAC, 50/60 Hz	115 VAC
Control Interface	ModBus TCP	
Water Cooling Interface In/Out	Legris Push-in 12 mm	Swagelock 12 mm
Trig Input	Electrical	
Diagnostics	Pulse Voltage and Current	See Options

Standard Modulator Includes

Control System
Remote Control
Filament PS
Pulse Sensors
Internal Trig Generator

Additional System Components

Circulator & RF Loads
Directional Coupler
Magnet PS
Waveguide windows
Magnetron

Typical Magnetron Loads

BVERI
VE2116
E2V
MG5028
MG8076

GLVAC
GLM8028

Can also power klystrons

Options

Pulse/RF diagnostics
Enhanced PRF Range (1000–2000 Hz)
Enhanced Stability (down to 0.1%)
Digitizer

Size and Weight

Weight approx. 200 kg
(incl. oil)

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is subject to change without notice.*

