

# 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).

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**  
M5028  
MG8076

**GLVAC**  
GLM8028

*Can also power klystrons*

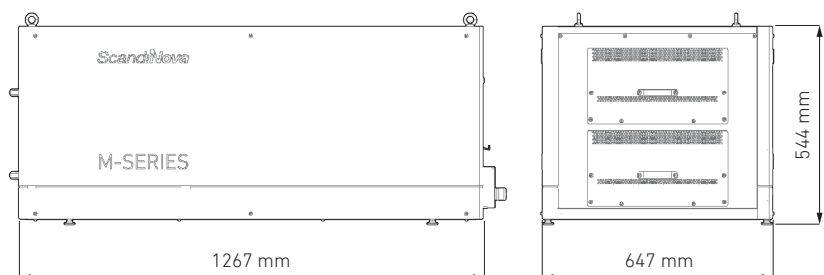
#### Options

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.*



#### HEADQUARTERS

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