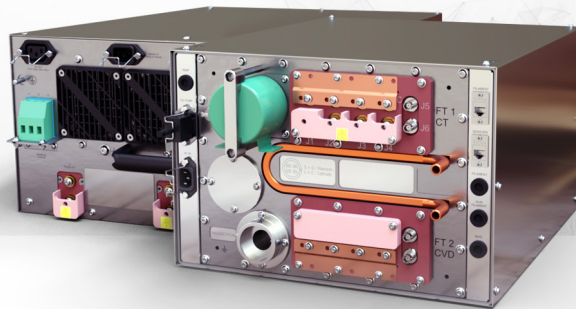


M-SERIES M100D-i



RF PEAK POWER UP TO 3.1 MW

MODULATOR PEAK POWER UP TO 6.2 MW

This dual-energy pulse modulator is designed for system integration and to handle a wide range of different magnetrons in the range 1.0 MW to 3.1 MW in a very compact enclosure. Our dual-energy models are for applications where there is a need to switch between two different energy levels. To facilitate system integration, the modulator has a split design, divided into a Tank unit and a Pulse unit. We provide everything from a pure high-power pulse modulator to a turn-key RF station including the magnetron, control system and related components. M100D-i is also available as a single-energy and / or stand-alone version (see M100, M100-i, M100D).

SYSTEM SPECIFICATIONS	UNIT	DATA	NOTES
Magnetron RF Peak Power, High	MW	1–3.1	Depends on choice of magnetron
Magnetron RF Peak Power, Low	MW	0.9–2.5	Depends on choice of magnetron
Magnetron RF Average Power	kW	2.8	Maximum
Modulator Peak Power, High	MW	6.2	Maximum
Modulator Peak Power, Low	MW	5.2	Maximum
Modulator Average Power	kW	8	Maximum
Pulse Voltage	kV	30–52	Typical range
Pulse Current	A	30–120	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	Optical
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	E2V	GLM
VE2110	MG5193	GLM5193
NJRC	MG6090	GLM5810
M1603	MG6493	GLM6090
M1466	MG7095	CPI
MX7640	GLVAC	VMC3109
M1466N	VE2110A	VMC3136
M1466T	VE2098	

Options

Pulse/RF diagnostics
Enhanced PRF Range (500–1000 Hz)
Enhanced Stability (down to 0.1%)
Digitizer

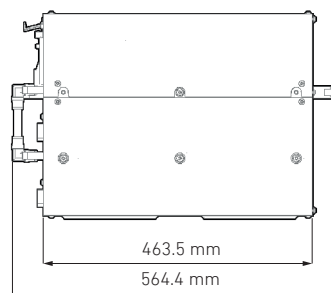
Size and Weight

Weight approx.

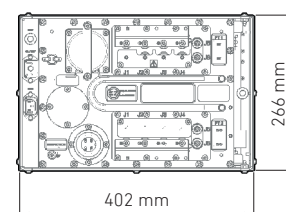
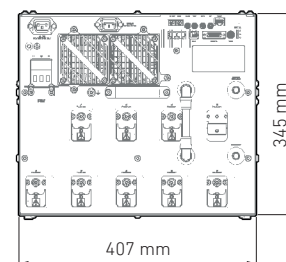
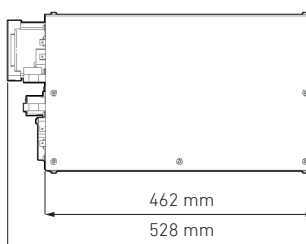
- Pulse Unit 68 kg
- Tank Unit 76 kg (incl. oil)

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

PULSE UNIT:



TANK UNIT:



HEADQUARTERS

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