Scandi<mark>Nova</mark>

M-SERIES MO60



MAGNETRON MODULATOR UP TO 2 MW

The MOGO is ScandiNova's smallest magnetron Pulse Modulator. It has a very compact enclosure and is designed for custom integration into your application. The Modulator is air cooled and uses single-phase AC power. It is optimized for a wide range of different magnetrons with an RF peak power ranging from 0.2 MW to 2 MW.

All interlocks and essential diagnostics are fully integrated, and ScandiNova's modern control system offers a user-friendly interface. The pulse length, amplitude and repetition rate can all be changed.

The M060 can be delivered as a pure high-power Pulse Modulator or as part of an RF Unit including magnetron and related components. Different levels of service and support programmes are available.

COMPACT

UP TO 2 MW RF PEAK POWER

AIR COOLED

USES SINGLE-PHASE POWER

MINIMIZED CONSUMABLES

THE M-SERIES

ScandiNova's M-series

contains a range of magnetron pulse modulators with high reliability and performance, a compact design and low energy consumption.

Our magnetron pulse modulators require about one third of the space of alternative solutions yet still offer around 30% higher efficiency, two operating advantages that especially appeal to cancer treatment providers.

Their high reliability and performance also attract many industry applications.

Excellence in pulsed power www.scandinovasystems.com

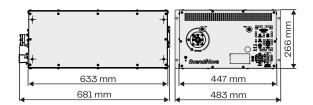
SPECIFICATIONS	UNIT	VALUE*	NOTES
Magnetron RF peak power	MW	0.2-2	Limited by choice of magnetron
Magnetron RF average power	kW	0.4	Maximum, depends on choice of magnetron
Modulator peak power	MW	0.3-3.8	
Modulator average power, 115 V	kW	1	Maximum
Modulator average power, 230 V	kW	1.5	Maximum
Pulse voltage	kV	16-38	
Pulse current	А	20-100	
RF pulse length, top	μs	0.1-4	Limited by max average power
Pulse repetition rate	Hz	1-2410	Limited by max average power
Modulator Voltage Stability, RMS	77	0.4	Verified on resistive load (see options)
Cooling	-	-	Air cooled, ambient temperature +10 to +35 °C

* All maximum values cannot be reached simultaneously.

CONNECTOR	DEFAULT
C20	115-230±15 % VAC, 50/60 Hz
D-sub 15-pin	
RJ45	Modbus TCP
BNC	Electrical
SMA	Pulse voltage & current signals
	C20 D-sub 15-pin RJ45 BNC

SIZE AND WEIGHT	UNIT	VALUE
Weight (incl. oil)	kg	74

For more information, visit www.scandinovasystems.com/M060



Contact ScandiNova for any requirements not covered by this specification.

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

The Standard Modulator Includes Services

Filament power supply Control system	Training in handling, operation and maintenance Shipping Installation and start-up		
Control via Modbus TCP			
Pulse sensors			
HV pulse cable	Service contract		
Internal trig generator	Typical Magnetron L	oads	
Factory acceptance test certificate	Stellant (L3)	Teledyne e2v	
Manuals	PM2000X	MG5125	
Options	L6170		
Peaking components	L4553	VMC2033A	
Additional System Components	Nisshimbo (NJRC)	VMC3139	

MX7637

Circulator & RF loads

Directional coupler	MX7638
Magnet power supply	MX7639
Waveguide windows	M1913S
Magnetron	M1613

3)	Teledyne
	MG5125
	CPI
	VMC2033A
(NJRC)	VMC3139
	VMC3162
	VMC3014
	VMC1891A
	SFD373

SFD341

COMPANY WITH MANAGEMENT SYSTEM CERTIFIED BY DNV ISO 9001 - ISO 14001

HEADQUARTERS

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CONTACT

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