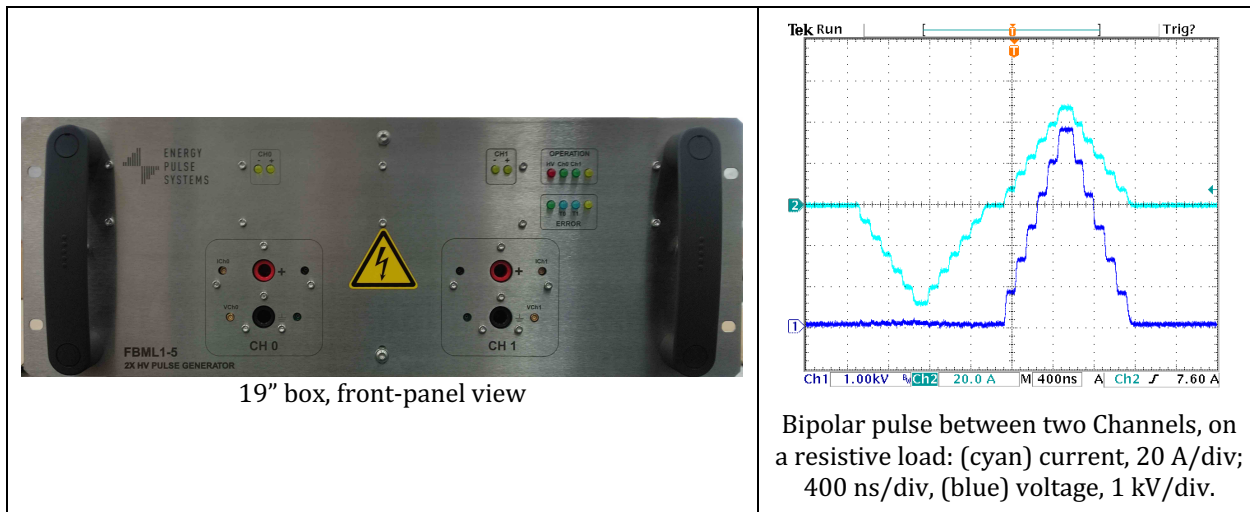


# Generator for biomedical applications

## EPULSUS-FBML1-5

EPULSUS®-FBML1-5 is a high-performance pulse generator that incorporates two independent positive Marx modulators, based on SiC MOSFET technology, designed especially for biomedical applications, capable of unipolar and bipolar, asymmetric and multilevel, operation. The equipment is controlled by a PC graphic interface, with overcurrent protection and U/I monitoring.



## Main Specifications

Input	
Voltage & current	110Vac or 230 Vac, single phase with ground
Output	
Maximum voltage	5000 V (pulsed) in two channels, referenced to ground
Pulse polarity	Positive / Bipolar
Maximum current	55 A (pulsed) in two channels
Maximum power	<200 W
Maximum frequency	2.5 MHz between burst pulses, limited by power
Pulse rise time	Below 50 ns for 5 kV and 50 A pulses
Maximum Stored energy	125J at 5000V output, in each Marx modulator
Pulse width	200ns to 100µs, with 100ns steps (limited by power)
Time between pulses	200ns to 100µs with 100ns steps (limited by load current)
Pulse duty cycle	Limited by maximum power
Burst mode	The generator operates in burst mode from 1 to 200 pulses, which can have a repetition frequency from 1 to 1 kHz
Protections	
	Output overcurrent protection up to 55A (software programmed)
	Operation overtemperature at 50°C
Cooling	Internal forcer air
Environment	
Operation temperature	0 to +45 °C
Storage temperature	0 to +85 °C
Humidity	90 %, non-condensing
Ingress Protection /Weight	IP20 / 25 kg
Size (LxWxH)	19 inch rack, 4U, 559x430x174mm3
Installation/orientation	Horizontal with sufficient spacing for ventilation