

EPULSUS®-BM1A-12

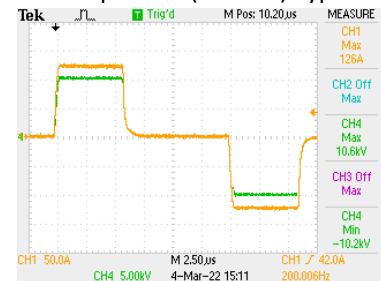
For all laboratory & some pilot plant PEF applications

Advantages

- 12 kV/250 A output bipolar square pulses
- Flexible pulse width and frequency operation
- High efficiency
- 3 kW maximum output power
- Resistive loads
- 1000x600x400 mm, 80 kg package
- Air cooled and IP54 index
- CE Marked and SIL 3 safety
- Short-circuit protection
- Local and remote programming
- Pico-scope for PC monitoring



(Top) Indicative picture. (Bottom) Typical U/I Pulse



Description

EPULSUS®-BM1A-12 is Pulsed Electric Fields, PEF, equipment from laboratory to pilot plant use, includes bipolar solid-state Marx Modulator, safety box & batch/continuous treatment chamber.

Specifications

INPUT	
Voltage	230 VAC, 1PH+N, 50/60 Hz
Current	15A @ 230VAC
Power factor	>0.98
Power	3500W, single phase + PE

OUTPUT	
Voltage	Up to 12 kV
Power	3000 W
Current	250 A
Polarity	Positive & negative
Stored energy	max 600 J

PULSE FLEXIBILITY	
1 to 200 Hz	
2 µs to 200 µs	Average 250ns rise time

PULSE MODE	
Single pulse	One-shot
Multi-pulse	1 to 200 pulses
Continuous	<i>n</i> pulses
Burst operation	

PROTECTIONS	
Over temperature	70 °C
Over-current	250 A, slow
Short-circuit	260 A, fast
Safety	SIL 3 according to IEC 62061

REGULATIONS	
CE Marked	

CONNECTIONS	
HV cable	3m URM67 with HV plug
Output Ethernet plug	For remote control
PC Oscilloscope	Pico-scope Included
Local programming	HMI, pulse V/I/ton/f
Local monitoring	HMI, pulse V/I/ton/f

ENVIRONMENT	
Operation temp	10°C – 40°C
Storage	- 20°C – 60°C
Humidity, max	90% non-condensing
Cooling	Forced air