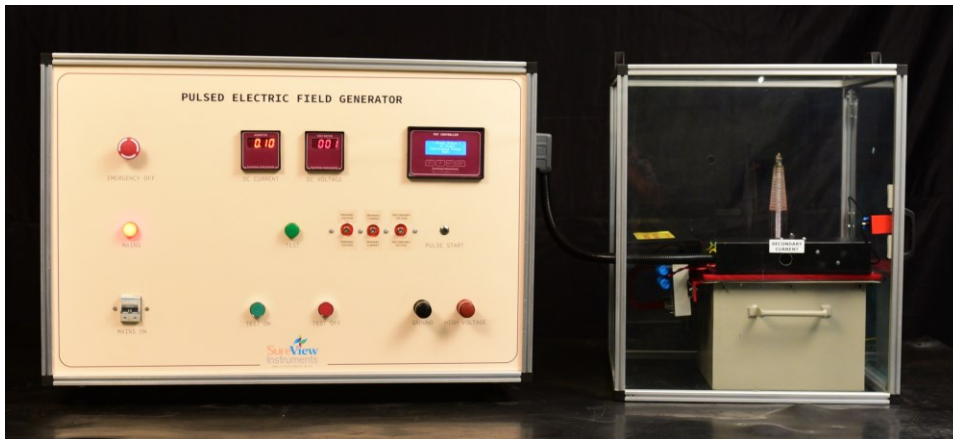


PULSED ELECTRIC FIELD GENERATOR

SureView Instruments India manufactures High Voltage Pulsed Electric Field Generator for applications requiring 'Electroporation'.



It Consists of:

Programmable AC to DC
Convertors:

This is used for providing DC link voltage to the switching circuit. The output voltage is fully programmable, i.e. once can set any voltage by giving analog input voltage 0-10V which will be available from control unit.

Solid state switching unit:

This is a switching unit. The DC link voltage is connected to bridge and signal is obtained from the control unit. The pulse duration, pulse interval and output voltage peak value are applied to the input to get desired pulse-out voltage and wave shape.

High voltage pulse transformer array:

This is custom-designed high frequency HT transformer for the pulse operation

Control unit:

Setting the peak value of the voltage

Setting pulse-width

Setting number of pulses with time-interval between consequent pulses

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www.svi.one/PEF

PULSED ELECTRIC FIELD GENERATOR – 15KV

INPUT		OUTPUT	
Voltage	190 to 260 V _{AC} , 1PH, 50/60 Hz	Voltage	Up to 15000V
Current	15 @ 230V _{AC}	Power	3000W
Power factor	>0.98	Current	250A
Power	2500W, single phase	Polarity	Positive
		Stored energy	max 1000J
PULSE FLEXIBILITY		PULSE MODE	
1 to 100Hz		Single-pulse	One-shot
5μs to 200μs	Average 300ns rise time	Multi-pulse	1 to 200 pulses
		Continuous	<i>n</i> pulses
		Burst operation	
PROTECTIONS		REGULATIONS	
Over temperature	70°C		
Over-current	210A, slow		
Short-circuit	230A, fast	Isolation	4000V _{AC}
Safety interlocks		Leakage current	< 500μA
Reset	After power-on		
CONNECTIONS		ENVIRONMENT	
HV cable		Operation temp	10°C - 40°C
PC Oscilloscope	Optional	Storage	- 20°C - 60°C
		Humidity, max	90% non-condensing
		Cooling	Forced air

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PULSED ELECTRIC FIELD GENERATOR – 30KV

INPUT		OUTPUT	
Voltage	190 to 260 V _{AC} , 1PH, 50/60 Hz	Voltage	Up to 30000V
Current	15 @ 230V _{AC}	Power	4500W
Power factor	>0.98	Current	300A
Power	4500W, single phase	Polarity	Positive
		Stored energy	max 1500J
PULSE FLEXIBILITY		PULSE MODE	
1 to 100Hz		Single-pulse	One-shot
5μs to 150μs	Average 300ns rise time	Multi-pulse	1 to 200 pulses
		Continuous	<i>n</i> pulses
		Burst operation	
PROTECTIONS		REGULATIONS	
Over temperature	70°C		
Over-current	210A, slow		
Short-circuit	230A, fast	Isolation	4000V _{AC}
Safety interlocks		Leakage current	< 500μA
Reset	After power-on		
CONNECTIONS		ENVIRONMENT	
HV cable		Operation temp	10°C - 40°C
PC Oscilloscope	Optional	Storage	- 20°C - 60°C
		Humidity, max	90% non-condensing
		Cooling	Forced air

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PULSED ELECTRIC FIELD GENERATOR – 40KV

INPUT		OUTPUT	
Voltage	190 to 260 V _{AC} , 1PH, 50/60 Hz	Voltage	Up to 40000V
Current	15 @ 230V _{AC}	Power	6000W
Power factor	>0.98	Current	400A
Power	5500W, single phase	Polarity	Positive
		Stored energy	max 2000J
PULSE FLEXIBILITY		PULSE MODE	
1 to 200Hz		Single-pulse	One-shot
5μs to 100μs	Average 300ns rise time	Multi-pulse	1 to 200 pulses
		Continuous	<i>n</i> pulses
		Burst operation	
PROTECTIONS		REGULATIONS	
Over temperature	70°C		
Over-current	210A, slow		
Short-circuit	230A, fast	Isolation	4000V _{AC}
Safety interlocks		Leakage current	< 500μA
Reset	After power-on		
CONNECTIONS		ENVIRONMENT	
HV cable	3m URM67 with HV plug	Operation temp	10°C - 40°C
PC Oscilloscope	Optional	Storage	- 20°C - 60°C
		Humidity, max	90% non-condensing
		Cooling	Forced air

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Background:

Our group has a presence in Industrial Automation & Test Equipment since 1975. We have served leading companies like L&T, Schneider, ABB, Eaton, Siemens, Panasonic, ERDA, ERTL, UL, Teknic, Panasonic, Legrand, Indoasian, Havells, Philips, Al Fanar, C&S, Finolex, Honeywell, Polycab, Raychem, Ion Exchange, Salzer, Syska, Portescap and Reliance Industries Limited.

Other Products:

- Fuel-cell Test Equipment
- Battery Test Equipment
- PLC based Control Systems
- Industrial-Internet of Things
- Data Acquisition Devices

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