



EAGLE HARBOR TECHNOLOGIES

Nanosecond Pulser Product Line



Precision pulse control in a user friendly package

KEY FEATURES

- Turnkey system
 - Front panel pulse control
 - DC power supply included
- Independently user adjustable
 - Output voltage
 - Pulse width
 - Pulse repetition frequency
- Fast rise times

APPLICATIONS

- Dielectric barrier discharge
- Rapid capacitor charging
- Pseudospark
- Laser driver
- High power microwaves
- Light production
- Surface modification
- Medical devices

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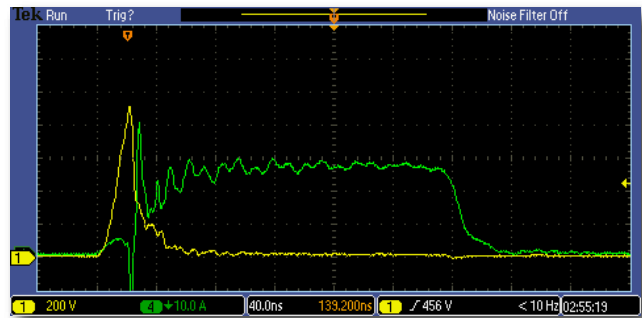
PULSER MODELS

Models	Power ¹ (W)	Voltage (kV)	Max PRF (kHz)	Rise Time ² (ns)	Pulse Width (ns)	Style
NSP-120-5	120	5	10	20	40-500	Benchtop
NSP-120-10	120	10	10	20	40-500	Benchtop
NSP-120-20	120	20	10	20	40-500	Benchtop
NSP-120-30	120	30	3	50	50-500	Benchtop
NSP-1500-5	1500	5	30	20	40-250	Rackmount
NSP-5000-5	5000	5	100	20	40-250	Rackmount
NSP-1500-10	1500	10	30	20	40-250	Rackmount
NSP-5000-10	5000	10	100	20	40-250	Rackmount
NSP-1500-20	1500	20	30	20	40-250	Rackmount
NSP-5000-20	5000	20	100	20	40-250	Rackmount

¹Power is measured at DC supply. ²Fall time can be optimized for resistive or capacitive loads.
Custom units with fast rise time, higher voltage, and higher pulse repetition frequency are possible.

PULSE WAVEFORMS

The waveforms below show a voltage (yellow) and current (green) measurement for an NSP driving a dielectric barrier discharge (left) and a spark discharge (right).



APPLICATIONS

NSPs are used to generate a wide range of plasmas. Top: plasma jet into vacuum, atmospheric pressure plasma jet (APPJ) array, single APPJ. Bottom: APPJ, pseudospark discharge in low pressure argon, 1 m long DBD, and liquid water discharge.

