



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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Pulsers Models

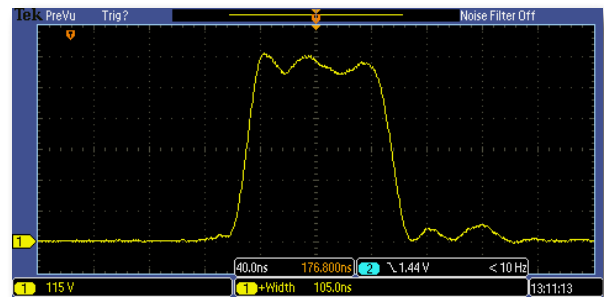
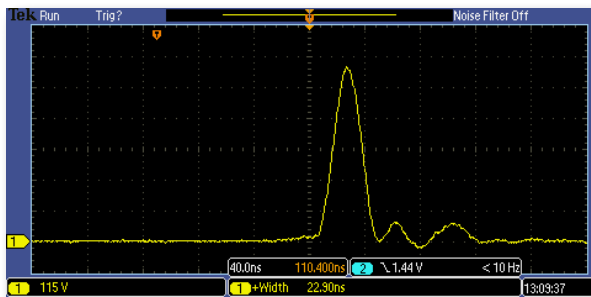
Models	Power ¹ (W)	Voltage (kV)	Max PRF (kHz)	Rise Time (ns)	Pulse Width ² (ns)	Style
NSP-30-5	30	5	6	20	20-250	Benchtop
NSP-30-10	30	10	4	20	30-250	Benchtop
NSP-30-20	30	20	1	20	40-250	Benchtop
NSP-60-5	60	5	12	20	20-250	Benchtop
NSP-60-10	60	10	8	20	30-250	Benchtop
NSP-60-20	60	20	4	20	40-250	Benchtop
NSP-120-5	120	5	30	20	20-250	Benchtop
NSP-120-10	120	10	20	20	30-250	Benchtop
NSP-120-20	120	20	10	20	40-250	Benchtop
NSP-1000-5	1000	5	50	20	20-250	Rackmount
NSP-1000-10	1000	10	40	20	30-250	Rackmount
NSP-1000-20	1000	20	30	20	40-250	Rackmount
NSP-3300-5	3300	5	100	20	20-250	Rackmount
NSP-3300-10	3300	10	100	20	30-250	Rackmount
NSP-3300-20	3300	20	100	20	40-250	Rackmount
NSP-5000-5	5000	5	100	20	20-250	Rackmount
NSP-5000-10	5000	10	100	20	30-250	Rackmount
NSP-5000-20	5000	20	100	20	40-250	Rackmount

¹Power is measured at DC supply.

²40 - 500 ns range also available for 120 W and below.

Pulse Waveform

The waveforms below demonstrate the adjustability of the pulse width (20 ns - left and 100 ns - right) and fast rise time (20 ns). The pulse shape is load dependent. Custom units with faster rise times and higher voltage are possible.



Applications

Below are several example plasmas: atmospheric pressure plasma jet, pseudospark discharge in low pressure argon, 1 m long DBD, and liquid water discharge.

