

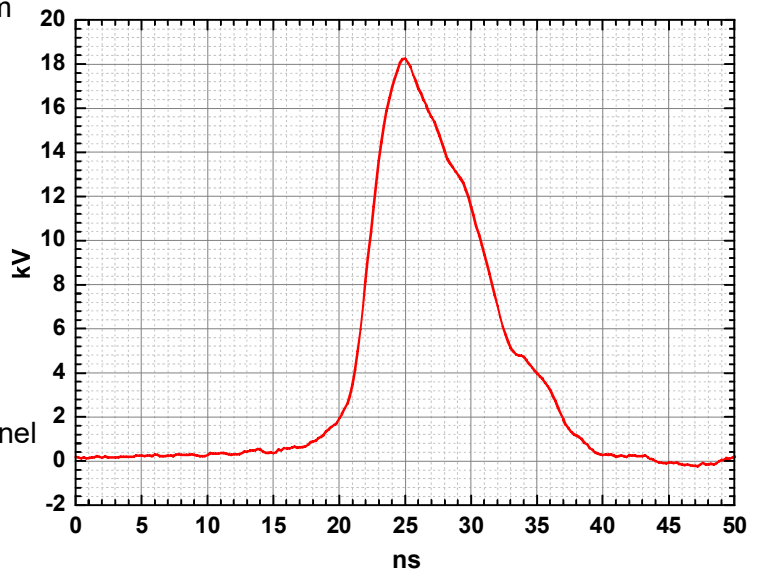
NPG18P14 and NPG18N14 four-channel burst mode high voltage nanosecond pulse generators



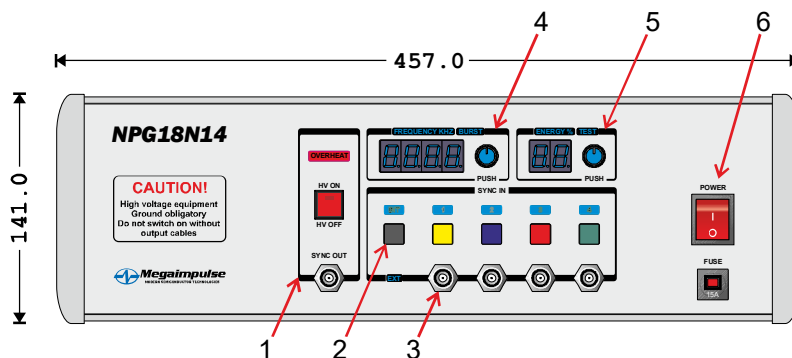
- High output power and efficiency
- Smart and user friendly digital control
- Maintenance free, 24/7 operation
- DSRD semiconductor technology ensures stable output pulse waveform, high reliability, efficiency and long operation life-time

The generators produce unipolar bell-like nanosecond pulses positive (NPG18P14) or negative (NPG18N14) polarity. The rise time and pulse width are fixed, while the amplitude can be smoothly adjusted. The frequency can be set from 1 Hz to 4 kHz in continuous mode and up to 100kHz in a burst. Smart and versatile digital control allows operation in continuous and burst modes in both internal and external triggering, prevents possible damage in case of improper external triggering, as well as provides the protection of overheating and short/open load. The total maximum output power of four channels is 480 W. Each channel can be turned-on and turned-off independently.

- Amplitude regulated 13...18 kV @75Ohm
up to 36 kV on the discharge
 - Polarity positive (NPG18P14)
negative (NPG18N14)
 - Number of channels four
 - Rise time less than 4 ns
 - Width (FWHM) less than 10 ns
 - Pulse energy regulated 15...30 mJ
 - Repetition rates and operation modes:
 - continuous from 1 Hz to 10 kHz
 - burst from 1 Hz to 100 kHz
 - single pulse *)
 - Burst length from 1 to 4000
 - Output power up to 120 W in each channel
 - Internal delay less than 1 μ s
 - Jitter (RMS) 1 ns
 - Internal and external triggering
 - Special output HV coaxial connectors
 - SYNC IN and SYNC OUT BNC connectors
 - Power supply AC 110...230V / 50...60 Hz
- *) single pulse mode for the external triggering only



NPG18P14 pulse waveform on matched 75 Ohm load



- 1 - OVERHEAT LED, HV ON/HV OFF button, SYNC OUT BNC connector
- 2 - internal/external triggering button and LED indicators
- 3 - channels LED indicators, ON/OFF buttons, and SYNC IN BNC connectors
- 4 - frequency and number of pulses control
- 5 - pulse energy control and test mode
- 6 - main power supply switch and electronic fuse