

High voltage nanosecond pulse generator



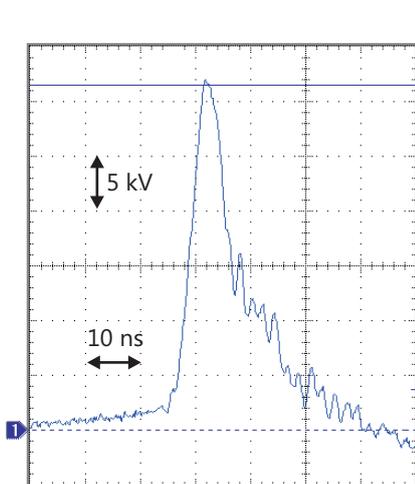
NPG-15/2000(N)

- Compact
- Low cost
- Long operation life

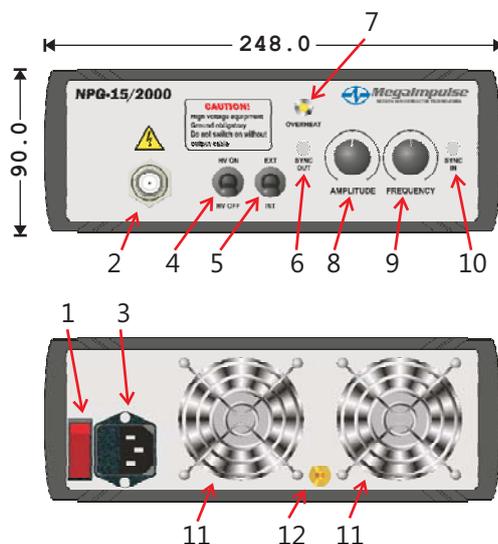
NPG-15/2000(N) generator is designed for barrier and other type discharge systems as well as others applications which requires high voltage power nanosecond pulses. Compact, reliable and cost-efficient, it can provide up to 4.5 MW peak power and about 100 W average power at the load.

NPG-15/2000(N) generator is based on Drift Step Recovery Diodes, new type of semiconductor devices which allow to obtain high reliability, high efficiency and long operation life time of the generator.

Pulse amplitude	regulated 13 - 18kV at matched 75 Ohm load up to 36kV at discharge reactor
Pulse polarity	positive (NPG-15/2000) negative (NPG-15/2000N)
Pulse rise time	4 ns
Max pulse energy	30mJ
Peak pulse power	4.5 MW
Repetition rate	up to 3.2 kHz
Special output connector for HV applications	
Internal and external triggering	
Opto-fiber connectors for external triggering and pulse monitoring	



Typical pulse waveform at barrier discharge reactor



- 1 - power switch
- 2 - output connector
- 3 - power supply and fuse
- 4 - high voltage ON/OFF switch
- 5 - EXT/INT synchronization switch
- 6 - optical SYNC OUT
- 7 - overheat LED
- 8 - amplitude regulation knob
- 9 - frequency regulation knob
- 10 - optical SYNC IN
- 11 - fans
- 12 - ground terminal