

Products - FPG series - FPG-N Nanosecond Pulsers

FID GmbH has developed a series of pulse generators with nanosecond rise time. FPG-N series pulse generators are designed for convenient laboratory or industrial use. These pulsers can be manufactured both in desktop or rack mount housings. FPG-N series includes all common features of [FPG series](#) ➔.



Pulse generators of FPG-N series have a rise time ranging from 1 nanosecond to hundreds of nanoseconds.

For customers demanding rise times of less than 1 ns FID GmbH offers pulse generators of [FPG-P series](#) ➔ and [FPG-SP series](#) ➔.

The following table of reference models of pulse generators will help you to estimate FID GmbH possibilities.

Series	Output voltage	Rise time	Pulse width	Max Pulse repetition frequency	Size (mm)	Lead time (months)
FPG 1-N	1 kV	1-2 ns	1 - 2 ns	1 MHz	300x200x120	3
FPG 5-N	5 kV	1-2 ns	1 - 2 ns	300 kHz	300x200x120	3
FPG 10-N	10 kV	1-2 ns	1 - 2 ns	100 kHz	300x200x120	3
FPG 20-N	20 kV	1-2 ns	1 - 10 ns	10 kHz	300x200x120	4
FPG 50-N	50 kV	1-2 ns	1 - 10 ns	2 kHz	400x400x160	4
FPG 100-N	100 kV	1-2 ns	1 - 3 ns	1 kHz	400x400x160	4
FPG 200-N	200 kV	1-2 ns	1 - 3 ns	1 kHz	400x400x160	5
FPG 500-N	500 kV	1-2 ns	1 - 100 ns	1 kHz	1000x400x300	5
FPG 1000-N	1 MV	1-2 ns	1 - 100 ns	1 kHz	1500x400x300	6

All specifications are given at 50 - 100 Ohm

Total efficiency can be 70-90% at the pulse width from 10 to 100 ns

Pulse duration is given at 50% of amplitude, other pulse widths are possible

Dimensions and lead time are approximate

Please also visit our [Applications](#) ➔ section, which describes pulse generators developed for specific fields of use.

Many types of benchtop pulsers can be implemented as [pulsed power modules](#) ➔.