

## Products - FPG series - FPG-SP Ultra-Fast Pulsers

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



Pulse generators of FPG-SP series have a rise time ranging from 20 ps to 100 picoseconds.

For rise times of more than 100 ps but less than 1 ns FID GmbH offers pulse generators of [FPG-P series](#) → with rise time of 100-1000 ps and [FPG-N series](#) → with rise time of more than 1 nanosecond.

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 2-SP  | 2 kV           | 20-100 ps | 0.2 - 1 ns  | 100 kHz                        | 200x120x300 | 4                  |
| FPG 5-SP  | 5 kV           | 20-100 ps | 0.2 - 1 ns  | 100 kHz                        | 200x120x300 | 4                  |
| FPG 10-SP | 10 kV          | 20-100 ps | 0.2 - 1 ns  | 100 kHz                        | 200x120x300 | 4                  |

All specifications are given at 50 Ohm

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 bench top pulsers can be implemented as [pulsed power modules](#) →.