Pulse Generator Requirement Questionnaire

In order to quickly analyse the enquiries concerning the high voltage pulse generators, we need some information. Please fill-in the following lines of this questionnaire and we will send you a quotation in a short delivery time. The first part of the questionnaire is mandatory. The second one is optional but any information helps us to speed up the process.

Required information:
Type of pulse: □ voltage □ current
The pulse specifications must be fulfilled on the following load\(^1\):

- □ 50 Ω □ open circuit □ short circuit □ other: ___________ [Ω]

Peak voltage: __________ [kV] or peak current: __________ [kA]

Waveform type\(^2\): □ double exponential □ rectangular □ gaussian □ other: ________________

Rise time \(T_r\) (10-90%): ________ [ns]

Fall time \(T_f\) (90-10%) (if waveform rectangular): ________ [ns]

Duration\(^3\) \(T_d\) (50-50%): ________ ☐ [ns] ☐ [µs]

Generator output impedance: __________ [Ω]

Repetition frequency: __________ ☐ [Hz] ☐ [kHz] ☐ [MHz] ☐ single pulse

Useful additional information:
Energy of the generator\(^4\): ____________ ☐ [J] ☐ [kJ]

Charging voltage: __________ [kV]

Type of output connector: ______________________

Interface: □ RS232 □ USB □ other: _______________________

Type of standard: ___________________________________________________________________

Description of the application: _________________________________________________________
__________________________________________________________________________________
Other information or remarks: _________________________________________________________
__________________________________________________________________________________

Remarks:
\(^1\) Generally (but not always), the pulse specifications are given for a load equal to the generator impedance (in RF: 50 Ω). In other cases, the voltage generators could be defined in open circuit and current generators in short circuit.

\(^2\) Example of waveform and definition of the pulses are given in the next page.

\(^3\) The duration of the pulse is sometimes named FWHM (full width at half-maximum).

\(^4\) The energy can be alternately given to the impedance requirement. The one or the other must be given in order to completely define the generator.

Do not hesitate to contact us for any further information. Please fill in this questionnaire and send back to the following given below.

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Definition of the waveform and of the rise time / fall time / duration of the pulse

**Double exponential waveform**

**Rectangular waveform**

**Gaussian waveform**