

# PCI - Short Pulse Generator 10 kV

This generator is used to measure the performance of points of entry and of protective devices according to MIL-STD188-125-1/2 (PCI: pulse current injection). It produces double exponential current pulses of short duration. As an alternative to the 80 kV / 1.2 kA generator, this equipment allows the test of each wire of a cable bundle for which the total current of 5 kA is split in each connection. An important advantage of this generator is the wide amplitude range from 0.2 kV to more than 10 kV. It can be fully controlled by a computer through a RS232 and USB interface. We also provide all the necessary accessories like current probes, coupling and decoupling networks, fibre optic links, etc. A remote-control software is also proposed as an option.



## SPECIFICATIONS

<b>Type</b>	<b>EMP10K-5-500</b>
Standard	MIL-STD-188-125-1 and -2 / short pulse
Pulse shape	double exponential waveform
Peak open circuit voltage	0.2 kV to 12 kV, positive only
Source impedance	$\geq 60 \text{ ohm}^1$
Peak short circuit current	$\geq 200 \text{ A}$
Rise time of the current (short circuit)	$< 20 \text{ ns}$
Pulse length (FWHM) (short circuit)	500 - 550 ns <sup>2)</sup>
Charging time	$< 10 \text{ sec}$
Output connectors	LEMO type FFA 3Y415 <sup>3)</sup>
Interface	RS 232 / USB
Power rating	85 - 264 V <sub>ac</sub> / 50 - 60 Hz / 150 VA
Storage / working temperature	5 - 50 °C / 15 - 45 °C
Dimensions	56 x 19 x 45 cm (L x H x W)
Weight	15 kg

- 1) Also available with 50 ohm source impedance as an option
- 2) 500 ns  $\pm 10\%$  with 50 ohm source impedance option
- 3) Available with 7/16 connector as an option