

PCI - Short Pulse Generator 80 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 350 kV / 5 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 less than 5 kV to 80 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. The automation software is also proposed as an option.

SPECIFICATIONS

Type	EMP80K-5-500
Standard	MIL-STD-188-125-1 and -2 / short pulse
Peak open circuit voltage	≤ 5 kV to 80 kV, positive only
Source impedance	≥ 60 ohm
Peak short circuit current	1.2 kA
Rise time of the current (short circuit)	< 20 ns
Pulse length (FWHM) (short circuit)	500 - 550 ns
Charging time	< 1 min
Output connectors	connecting bar with different drilling diameters
Insulation	oil
Interface	RS 232 / USB
Power rating	85 - 264 V _{ac} / 50 - 60 Hz / 150 VA
Storage / working temperature	5 - 50 °C / 15 - 45 °C
Dimensions (control unit / generator)	56 x 19 x 45 cm / 92 x 38 x 55 cm (L x H x W)
Weight (control unit / generator)	11 kg / 80 kg (with oil)