

PCI - Charge Line Generator

This generator is used to check the performance of antenna point of entry protective devices according to MIL-STD188-125-2 (PCI: pulse current injection) or similar standards. The high voltage module, available in two versions covering different frequency ranges and connector interfaces, allows the application of the pulse close to the antenna port. Several charge line plugs of different lengths are supplied in order to generate frequencies in the specified range. A complete set of accessories such as current probes, connector adapters, fibre optic links, as well as Montena PULSELab measurement software application is proposed.



SYSTEM SPECIFICATIONS

Type	CLP40K	CLP5K
Standard	MIL-STD-188-125 / charge line or similar	
Charging voltage	0.2 - 25 kV, positive only	0.05 - 5 kV, positive only
Peak short circuit current	≥ 400 A (with the 30 MHz charge line plug)	≥ 50 A (at 5 kV charging voltage)
Source impedance	50 ohm	50 ohm
Pulse rise time, on 50 ohm	< 5 ns	< 600 ps
Charging time	< 30 sec	< 10 sec
Number of charge line plugs	10	11
Charge line test frequencies	30, 40, 50, 75, 100, 125, 150, 175, 220 and ~250 MHz	30, 45, 50, 60, 90, 106.5, 140.5, 215, 300, 312.5 and 477.5 MHz
Charge line and output connectors	2 x HVM50K(f), montena proprietary	1 x N(f), 1 x N(m), other on demand
Triggering of the generator	manually or by the remote control	
Control interface	RS 232 and USB	
Electrical safety	complies with EN61010-1	
Power rating	85 - 264 Vac / 50 - 60 Hz / 150 VA	
Storage / working temperature	5 - 50 °C / 15 - 45 °C	
Dimensions (control unit)	56 x 19 x 45 cm (L x H x W)	
Weight (control unit)	15.1 kg	
Dimensions (HV module)	30 x 12 x 20 cm (L x H x W)	21 x 6 x 4 cm
Weight (HV module)	3.2 kg	0.55 kg

Ordering information

TYPE	DESCRIPTION
CLP40K	Charge Line generator, 0.2 - 25 kV, 30 to 250 MHz, 10 test frequencies
CLP5K	Charge Line generator, 0.05 - 5 kV, 30 to 477.5 MHz, 11 test frequencies