

High current damped oscillatory wave generator



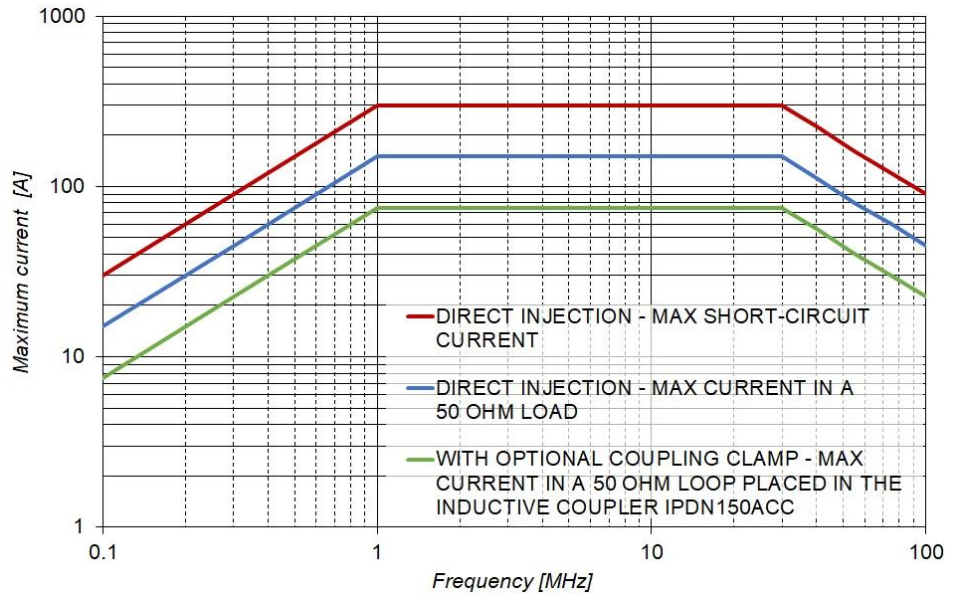
This unique high voltage / high current test system is used for damped oscillatory wave testing up to 300 A. The test method with the optional coupling clamp is similar to the one described in MIL-STD-461 CS116 except that this new series of generators can produce much higher current levels. The generator can be fully controlled by a computer. The calibration as well as the measurement process is entirely automated. All settings and levels are recorded for the measurement and for the generation of a test report. The system can produce up to 12 distinct frequencies between 100 kHz and 100 MHz. It has only one output and does therefore not require any change of connection during the test. That feature greatly reduces the test duration. A set of accessories such as a special coupling clamp, a high voltage attenuator ..etc, are proposed as an option.

SPECIFICATIONS

| Type | PG-C201 |
|--|---|
| Output waveform | damped oscillatory wave |
| Source impedance | 50 ohm |
| Maximum current | up to 300 A (direct injection, in a short-circuit) up to 150 A (direct injection, in a 50 Ω load) up to 75 A (with the optional coupling clamp, with a 50 Ω loop placed in the coupler) |
| Damping factor | between 5 and 20 (on a 50 Ω load) |
| Maximum stored energy | 6.4 J |
| Repetition rate | 5 s to 120 s |
| Test time (repetitive mode) | 0 to 10 min. |
| Maximum sequence duration | 10 min. |
| Mechanical life of the high voltage actuator, for each frequency | 0.5 million impulses in load 1 million impulses in open circuit |
| Output signal connection | Montena HVM50K female |
| Power rating | 230 VAC / 50-60 Hz / 100 VA |
| Electrical safety | complies with EN 61010-1 |
| EMC | complies with EN 61326-1 |
| Other interfaces | RS 232 (Sub-D female 9-pins) USB (type A) |
| Storage temperature | -10 to 60 $^{\circ}$ C |
| Operating temperature | 5 to 40 $^{\circ}$ C |
| Relative humidity | maximum 60% |
| Electrical insulation | oil |
| Total weight | 270 kg |
| Dimensions complete cabinet with caster wheels and lifting eyes | height : 1588 mm width : 600 mm depth : 800 mm |
| Dimensions 19" generator unit with front handles and rear connectors | height : 844 mm (19 U) width : 482 mm depth : 650 mm |

Global performances

Max current vs. frequency

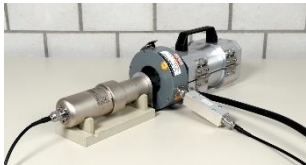


All designs can be adapted to the customer's requirements, to fulfil specific frequencies and/or standards.

Ordering information

| TYPE | ECCN | DESCRIPTION |
|---------|------|--|
| PG-C201 | n/a | damped oscillatory wave generator, frequency range : 0.1 - 100 MHz, 12 discrete frequencies, up to 300 A |

Related products / accessories



| TYPE | DESCRIPTION |
|------------|---|
| IPDN150ACC | high current coupling clamp, frequency range : 10 kHz - 400 MHz, max 75 A for $f \geq 1$ MHz, internal diameter : 43.8 mm, 5 m coaxial cable, HVM50K(m) connector |
| HVAT50K | high voltage coaxial attenuator 40 dB, connectors: 1 x HVM50K female, 1 x Type-N female, max. voltage 75 kV for 1ns pulse |