

MIL-STD-1275

Spike surge voltage Generator

The generator PG1275F is specially designed for conducted susceptibility tests of military vehicles 28 V electrical circuits to voltage surge and spikes according to the MIL-STD 1275 version F.

The maximum permanent current is 16 A. This value can be extended to 400 A using the optional external diode module DM400. The current is also limited by the external 5 μ H LISN. Different models of LISN are available. The generator can be controlled by a computer through its RS232 or USB interface. A control software is proposed to assist the operator in the measurement of the transient parameters.



SPECIFICATIONS

Type	PG1275F
Standards	MIL-STD-1275 F
Transients supported	injected voltage spikes, injected voltage surge
Vehicle generator and EUT operating voltage	28 V typ, 23 V min, 33 V max.
Spikes max open circuit voltage	500 V
Spikes maximum stored energy	1 J
Spikes rise time	≤ 50 ns typ, open circuit
Spikes frequency	20 kHz < f < 500 kHz depends on the LISN used
Spikes output connectors	2 x 4 mm safety socket
EUT operating current for spikes	depends on the optional LISN
Surge charging & open circuit voltage	110 V max.
Surge maximum stored energy	2.6 kJ
Surge output impedance	< 45 m Ω (DC) + 300 μ H
Surge pulse duration	500 - 505 ms (including tail)
Surge output connectors	2 x 4 mm safety socket
EUT operating current for surges	16 A max. 400 A with optional DM400 diode module. Also limited by the optional LISN.
Remote control interface	RS232 and USB
Operating temperature	10 – 40 °C
Power rating	90 – 264 Vac / 47 – 63 Hz / 650 VA
Dimensions (L x W x H)	19-inch rack only: 630 x 485 x 405 mm (9U) / with housing: 630 x 530 x 485 mm
Weight	19-inch rack only: 40 kg / with housing: +18 kg

Sales Partner:



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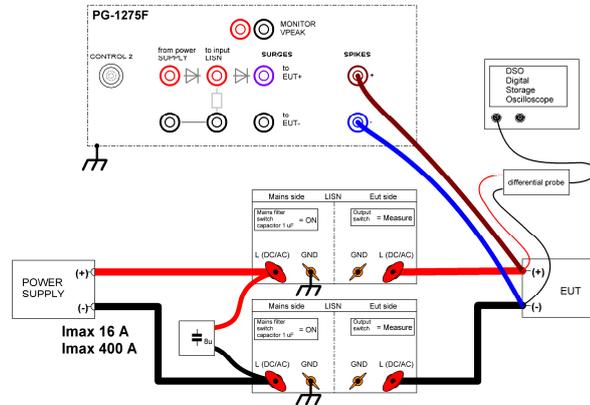
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Optional 400 A decoupling diode module

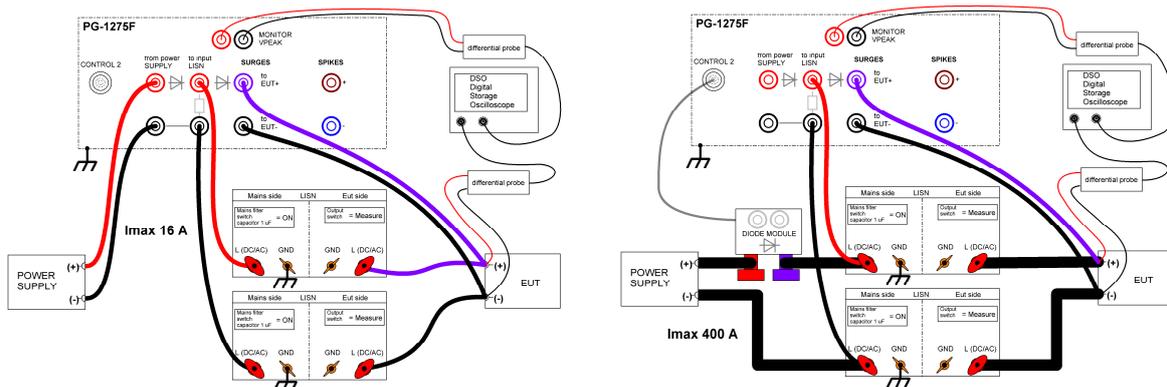
Type	DM400
Maximum continuous current	400 A
Connector	large binding posts
Dimensions	280 x 230 x 170 mm (L x W x H)
Weight	7 kg

Examples of test setup's

Injected voltage spikes



Injected voltage surge - Imax 16 A / Imax 400 A



Ordering information

TYPE	DESCRIPTION
PG1275F	Spikes and surge generator according to MIL-Std-1275F, incl. internal 16 A decoupling diode, 19" rack version

Related products / accessories

TYPE	DESCRIPTION
SW-1275	Automation software application for MIL-STD 1275 E / F test setup's
DM400	External 400 A decoupling diode module for surge tests on high current power leads, compatible with the generators PG1275E and PG1275F.
Other test accessories	LISNs, decoupling capacitor, differential voltage probe, oscilloscope ...etc, are available as required.

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