

Surge Generator for MIL-STD 1275E

The generator PG1275E is specially designed for conducted susceptibility / transient tests to voltage surges and spikes of 28 Vdc electric circuits in military vehicles according to MIL-STD 1275E.

The maximum permanent current is 16 A. This value can be extended to 400 A using the optional external diode module DM400. For the spikes test, the current limit is given by the external 5 μ H LISN (artificial network). Different versions of LISN are available. The generator can be fully controlled by a computer through a RS232 or an USB interface.



SPECIFICATIONS

Type	PG1275E
Standard	MIL-STD-1275E
Transients supported	injected spikes and injected surges
EUT operating voltage	28 Vdc
EUT operating current (spikes)	depends on the LISN
EUT operating current (surges)	16 A (400 A with the DM400 diode module)
Surge open circuit voltage	0 - 200 V
Surge maximum energy	470 J (<60 J for 70 V charging voltage)
Spike open circuit voltage	0 - 260 V
Spike maximum energy	< 2 J
Output connectors	4 mm safety sockets
Remote control	RS232 and USB
Operating temperature	10 – 40 °C
Power supply	<input type="checkbox"/> 100 V min. to 130 V max. 50 - 60 Hz, or
Configured in factory, either:	<input type="checkbox"/> 210 V min. to 264 V max. 50 – 60 Hz
Dimensions	610 x 450 x 200 mm (L x W x H)
Weight	22 kg

Optional external diode module

Type	DM400
Maximum continuous current	400 A
Connector	large binding posts
Dimensions	350 x 180 x 170 mm (L x W x H)
Weight	1.6 kg

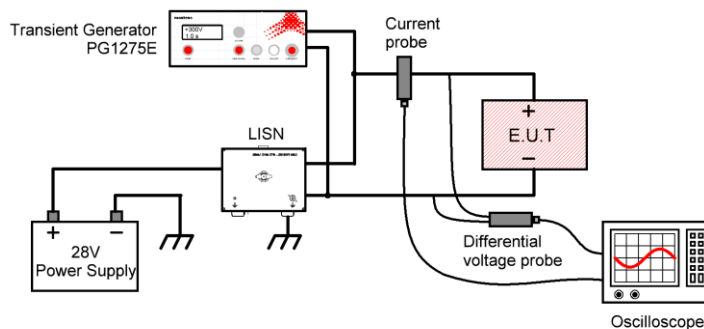
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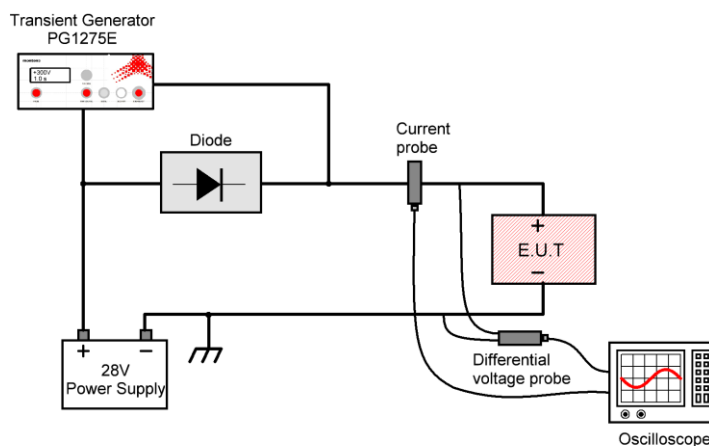
Examples of test setup

Injected voltage spikes



The voltage probe, current probe and oscilloscope monitor the pulse energy.

Injected voltage surge



Ordering information

TYPE	DESCRIPTION
PG1275E	Transient generator for MIL-Std-1275E, incl. internal 16 A diode, 19" rack version

Related products / accessories

TYPE	DESCRIPTION
DM400	External 400 A diode module for test with the PG1275E on high current power leads

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