

Spike Surge Voltage Simulator

VSS 1275F



In compliance with

> MIL-STD-1275F

Introduction

The spike surge voltage simulator VSS 1275F is designed for spike and surge conducted susceptibility tests to 28 V DC input power to utilization equipment in military vehicles as per MIL-STD-1275F. The product can be extended to 400 A by using diode device DM 400 and line impedance stabilization network LISN ML 400.

Features

- > 5.7" color touch screen front panel operation;
- > Ethernet & RJ45 interface for PC remote control, support test report generation and print;

Application Areas

- > Military

Surge Waveform Technical Parameters

Surge Voltage	30 V ~ 230 V
Surge Energy	1200 J Max.
Rise Time	1~10 ms
Duration	50 ms (-0/+5) S1 500 ms (-0/+5) S2
Generator Impedance	< 50mΩ (DC) + 0.3 mH
Repetition	5 s ~ 99 s
Counter	1~9999
External Diode Device DM 32 (option)	Max. Current 32 A (DC) Max. Voltage 50 V (DC)
External Diode Device DM 400 (option)	Max. Current 400 A (DC) Max. Voltage 50 V (DC)
External LISN LISN ML 400 (option)	Max. Current 400 A (DC) Max. Voltage 500 V (DC)

Spike Waveform Technical Parameters

Spike Voltage	50 V ~ 300 V
Spike Energy	<125 mJ
Rise Time	<50 ns
Polarity	Positive, Negative
Repetition	5 ms~1000 ms
Counter	1~9999
Oscillatory Frequency	100 kHz <f <500 kHz
External Capacitor DCM 8-4032 (option)	8 μF (DC: 400V/ 32A)
External LISN LISN ML 400 (option)	Max. Current 400 A (DC) Max. Voltage 500 V (DC)

Options

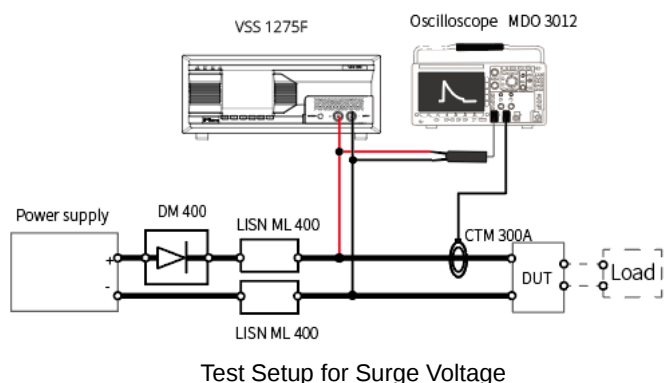
Diode Device DM 32	Max. Current 32 A (DC) Max. Voltage 50 V (DC)
Diode Device DM 400	Max. Current 400 A (DC) Max. Voltage 50 V (DC)
Line Impedance Stabilization Network LISN ML 400	5 μH inductance Max. Current 400 A (DC) Max. Voltage 500 V (DC)
Current Measurement Module CTM 300A	Test Range: 0~ ±300 A
Calibration Resistor R05	Impedance: 0.5 Ω

Accessories

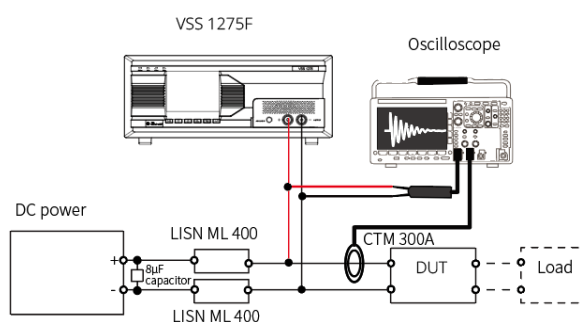
User Manual, Test line, Power line, Earth line, Fuses (spare parts)

General Parameters

Display Screen	5.7" touch screen
Working Power	AC 110 V/220V (±10%) 50 Hz/60 Hz
Fuse	6 A
Dimension	19"/4U rack, 450 mm (L) * 620 mm (D) * 190 mm (H)
Weight	Approx. 28 kg
Ambient Temperature	15 °C ~ 35°C
Relative Humidity	45%~75%
Atmospheric Pressure	86 kPa~106 kPa



Test Setup for Surge Voltage



Test Setup for Spike Voltage



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