



Spike Surge Voltage Simulator

VSS 1275F

■ MIL-STD-1275F

— Features

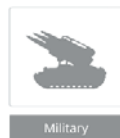
- > 5.7-inch color touch screen front panel operation
- > Ethernet and RJ45 interfaces, used for PC remote control and printing test reports
- > Built-in DC power source 20 V ~ 36 V, 32 A

— 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 integrates a DC power source 20 V~ 36 V rated 32 A, which makes the test setup convenient.

— Application Areas



Technical Parameters

Surge Voltage Waveform	
Surge Voltage	80 V ~ 120 V
Surge Energy	4,100 J
Rise Time	1 ms ~ 10 ms, built-in 2 Ω load
Duration	0 ms ~ 55 ms (-0/+5) S1 or closed state 1 ms ~ 550 ms (-0/+5) S2
Generator Impedance	< 45 m Ω (DC) + 0.3 mH
Repetition	5 s ~ 100 s
Counter	1 ~ 1,000
Spike Voltage Waveform	
Spike Voltage	50 V ~ 260 V
Spike Energy	369 mJ @ 300 V, 8.2 μ F
Rise Time	< 50 ns
Duration	< 1 ms
Generator Impedance	< 50 M Ω (DC)
Repetition	1 s ~ 100 s
Counter	1 ~ 1,000
Oscillatory Frequency	20 kHz ~ 500 kHz 20.5 kHz @ 5 μ H LISN
Built-in DC Power Source	
Voltage	20 V ~ 36 V
Current	Max. 32 A

General Parameters

Display Screen	5.7" TFT touch screen
Working Power	AC 100 V ~ 240 V, 50 Hz/ 60 Hz
Maximum Power Consumption	5,000 VA
Communication Mode	Ethernet Lan (RJ45 interface)
Dimension	19 inches/4U rack, 450 mm * 192 mm * 620 mm
Weight	Approx. 20 kg
Atmospheric Pressure	86 kPa ~ 106 kPa
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%

Standard Accessories

Power Cord, User Manual, Test Cables, Flat grounding cable, Fuse, Decoupling Capacitor Module

Optional Accessories

1	Line Impedance Stabilization Networks	Model: LISN AR50 (DC600V) Test voltage: 600 V DC, 530 V 400 Hz, 270 V 890 Hz Test current: 50 A, 100 A for short term Inductance: 5 μ H Frequency: 0.01 MHz ~ 400 MHz	
2	PC Control Software	Model: Corelab Support Windows 7/8/10/11; support Ethernet Interface; support sequence test, easy to operate, generate & export test report.	

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