

Specification



TSS 500M2F Telecom Surge Generator

- FCC part 68

The surge simulator type TSS 500M2F generates high voltage transients as required by FCC part 68.



TSS 500M2F

Power line surge 2/10 μ s	
Output voltage open circuit	160V – 2,500V \pm 10%
Rise time tr	< 2 μ s
Pulse duration td	> 10 μ s
Output current short circuit	64A – 1,000A
Rise time tr	< 2 μ s
Pulse duration td	> 10 μ s \pm 20%
Polarity	Positive, negative or alternating
Counter select	1 – 30,000 or endless

Surge A Longitudinal 10/160 μ s	
Output voltage open circuit	160V – 1,500V \pm 10%
Rise time tr	< 10 μ s
Pulse duration td	> 160 μ s
Short circuit output current	20 – 200A per wire
Rise time tr	< 10 μ s
Pulse duration td	> 160 μ s
Polarity	Positive, negative or alternating

Surge A Metallic 10/560 μ s	
Output voltage open circuit	160V – 800V \pm 10%
Rise time tr	< 10 μ s
Pulse duration td	> 560 μ s
Short circuit output current	20 – 100A per wire
Rise time tr	< 10 μ s
Pulse duration td	> 560 μ s
Polarity	Positive, negative or alternating

Coupling	
Telecom ports	Tip to Ground, Ring to Ground, Tip and Ring to Ground
Power ports 250V/16A	L to N, L to PE, N to PE, L+N to PE

Trigger	
Automatic	Automatic pulse release
Manual	Single pulse release
External	External pulse release
CRO trigger	5V trigger signal for oscilloscope
Synchronisation	0° - 360° on ac power ports

Measurements	
Peak voltmeter	2,500V \pm 10%
Peak current meter	1,000V \pm 10%

Test Routines	
Quick Start	Immediate start; easy to use and fast
User Test Routines	Manual Standard Test Routines Change Polarity after n pulses Change voltage after n pulses by Δ V
Standard Test Routines	Test levels as per FCC part 68
Service	Service, setup, self test

Interface	
Serial interface	RS 232, baud rate 1200 - 19200
Parallel interface	IEEE 488, address 1 - 30
CN interface	To control external coupling network

Safety	
Safety circuit	Control input (24Vdc)
Warning lamp	Floating output contact

General data	
Dimensions, weight	19" / 6HU, approx. 35kg
Supply voltage	115/230V +10/-15%
Fuses	2 x T 2AT (230V) or 2 x T4AT (115V)
Interfaces	RS 232 and IEEE 488 (GPIB)

Options	
CNV 504S1	4 telecom lines as per fig. 12 IEC 61000-4-5
CNV 504S2	4 signal lines as per fig. 11 IEC 61000-4-5
CNV 508S1	8 telecom lines as per fig. 12 IEC 61000-4-5
CNV 508S2	8 signal lines as per fig. 11 IEC 61000-4-5

Technical data subject to change without notice.



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