

## Slow Damped Oscillatory Wave Simulator (Damped Oscillatory Wave Immunity Test)

# SWCS-900 Series

conforming to IEC60255-22-1



This Simulator unit is compliant with Damped Oscillatory Wave Immunity Test required by IEC60255-22-1 1 MHz burst immunity tests for measuring relays and protecting equipment. Also, it is capable to execute the other 100KHz Slow Damped Oscillatory Wave immunity test defined in IEC61000-4-18 2006 ed1.0.

- Capable of generating two slow damped oscillatory waveforms compliant with IEC61000-4-18(2006)
- Maximum Output Voltage of 3kV allows flexible tests
- Touch-panel which provides superior setting visibility
- Selectable coupling modes by internal switches
- Coupling onto signal or other lines by connecting the output port to optional external CDN
- Built-in Power Line CDN (AC240V/DC125V 20A)
- Combinable with high capacity CDN (optional)

Design and Specification are subject to change without prior notice.

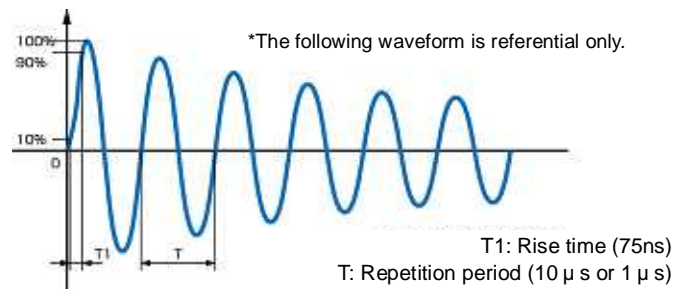
### SPECIFICATIONS

Parameters	Specifications	
Surge waveform	Slow Damped Oscillatory Wave	
Output voltage	0.20kV~3.0kV ± 10% (10V step)	
Short-circuit current	1.25A~15A ± 20%	
Oscillation frequency	100kHz	1MHz
Repetition Frequency	40Hz	400Hz
Envelop decay time 50% of the 1 <sup>st</sup> peak	20 μs ~ 45 μs	20 μs ~ 45 μs
Rise time	Rise time of the first peak 75ns ± 20%	
Output impedance	200 ± 10%	
Polarity	Positive and negative of the first peak	
Test duration	TIMER mode: fixed at 2s CONTINUE mode: operator starts and stops the test	
CDN power capacity	Single phase / three phase : AC240V 20A DC125V 20A	
Coupling modes	Normal mode: between L1/L2/L3/N Common mode: L1/L2/L3/N to PE	
Decoupling coil	1.5mH	
Decoupling capacitor	0.5 μF	
Operating power supply / Power consumption	AC100V~240V ± 10% 50/60Hz	
Dimensions / weight	(W)430 x (H)350 x (D)470mm (Projection excluded) Approx.20kg	

### STANDARD ACCESSORIES

Item	Qty
Signal Ground cable	1
Power cable	1
Instruction manual	1

### WAVEFORM IMAGE



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