

For Lightning Surge Simulator

CDN UNIT (AC600V / 300A)

This equipment can be combined with the LSS-F03 series lightning surge simulators to perform noise superimposition tests on three-phase four-wire (L1, L2, L3, N) lines up to AC600V / 300A.

* This product is a custom product. Please contact us for details.

Parameter	Function / performance	Note
Allowable input surge waveform	1.2/50 μ s-8/20 μ s combination waveform	
Allowable input surge waveform	Up to the max value that can be set	
Coupling circuit	18 μ F \pm 10%	Line-to-line
IEC 61000-4-5 compliant	10 Ω +9 μ F \pm 10%	Line-PE
AC superimposition part	Open circuit voltage : 0.5kV \sim 15kV \pm 10%	Coupling circuit : 18 μ F
Output waveform	Wave crest length : 1.2 μ s \pm 30%	Decoupling coil : 1.5mH
	Wave tail length : 50 μ s +10 μ s / -25 μ s	Cable length : 0.5m on one side
	Short-circuit current : 250A \sim 7500A \pm 10%	Setting is possible from 0kV
	Wave crest length : 8 μ s \pm 20%	Line input side open
	Wave tail length : 20 μ s \pm 20%	
	Open circuit voltage : 0.5kV \sim 15kV + 10/-20%	Coupling circuit : 10 Ω +9 μ F
	Wave crest length : 1.2 μ s \pm 30%	Decoupling coil : 1.5mH
	Wave tail length : 50 μ s +10 μ s / -40 μ s	Cable length : 0.5m on one side
	Short-circuit current : 41.7A \sim 1250A \pm 10%	Setting is possible from 0kV
	Wave crest length : 2.5 μ s \pm 30%	Line input side open
	Wave tail length : 25 μ s \pm 30%	
Apply mode	Line-to-line	Coupling circuit : 18 μ F (10 Ω +9 μ F selectable)
	Line-PE	Coupling circuit : 10 Ω +9 μ F (18 μ F selectable)
EUT power line configuration	Three-phase AC : L1/L2/L3/N/PE	
EUT power line power capacity	AC600V/300A MAX 50/60Hz	
Decoupling coil	1.5mH	
External dimensions	W555 \times H1800 \times D790 mm	



For Lightning Surge Simulator

DC power supply CDN (DC500V 60A)

This equipment can be combined with the Lightning Surge Simulator to perform noise superimposition tests up to DC 500 V / 60 A. In combination with the Lightning Surge Simulator main unit, tests can be performed by setting the applied phase switching and applied phase sweep.

- By using EV Fast Charger connectors for the EUT line INPUT/OUTPUT, DC power supply superimposition tests can be easily performed in combination with a lightning surge tester.
- This equipment can be controlled by operating the Surge Simulator.

Customization up to DC1000V is available.

Parameter	Function / performance	Notes
Superimposed surge waveform	1.2/50 μ s - 8/20 μ s combination waveform	
Max. superimposed surge voltage/ current	4.5kV	
Coupling circuit	18 μ F \pm 10%	Line - Line
DC CDN output waveform	Open circuit voltage : 0.5kV \sim 4.5kV \pm 10%	Coupling circuit : 18 μ F
	Wave crest length : 1.2 μ s \pm 30%	Decoupling coil : 1.5mH
	Wave tail length : 50 μ s +10 μ s / -10 μ s	Cable length : 0.5m on one side
	Short-circuit current : 250A \sim 2250A \pm 10%	Line input side open
	Wave crest length : 8 μ s \pm 20%	
	Wave tail length : 20 μ s \pm 20%	
Applied mode	Line - Line	Coupling circuit : 18 μ F
EUT power line configuration	DC : + / -	
EUT power line power capacity	DC500V/60A	
Decoupling coil	1.5mH (default)/1.3mH/1.0mH/0.8mH	

* This is a custom product.

It may be necessary to modify the Simulator's main unit. Prior technical discussion is advised. Please contact our sales representative for more details.

