

1 1.2/50 μ s combination wave generator1.1 1.2/50 μ s combination wave

1.1.1 Front time

1.2/50 μ s Open-circuit voltage				8/20 μ s Short-circuit current			
Indicated voltage [kV]	Measured [μ s]	Limits [μ s]	Results	Indicated voltage [kV]	Measured [μ s]	Limits [μ s]	Results
+0.5				+0.5			
-0.5				-0.5			
+1.0		1.2(± 30 %)		+1.0		8(± 20 %)	
-1.0				-1.0			
+2.0		(0.84-1.56)		+2.0		(6.4-9.6)	
-2.0				-2.0			
+4.0				+4.0			
-4.0				-4.0			

1.1.2 Time to half value

1.2/50 μ s Open-circuit voltage				8/20 μ s Short-circuit current			
Indicated voltage [kV]	Measured [μ s]	Limits [μ s]	Results	Indicated voltage [kV]	Measured [μ s]	Limits [μ s]	Results
+0.5				+0.5			
-0.5				-0.5			
+1.0		50(± 20 %)		+1.0		20(± 20 %)	
-1.0				-1.0			
+2.0		(40-60)		+2.0		(16-24)	
-2.0				-2.0			
+4.0				+4.0			
-4.0				-4.0			

1.1.3 Undershoot

1.2/50 μ s Open-circuit voltage				8/20 μ s Short-circuit current			
Indicated voltage [kV]	Measured [%]	Limits [%]	Results	Indicated voltage [kV]	Measured [%]	Limits [%]	Results
+0.5				+0.5			
-0.5				-0.5			
+1.0		30(Max)		+1.0		30(Max)	
-1.0				-1.0			
+2.0				+2.0			
-2.0				-2.0			
+4.0				+4.0			
-4.0				-4.0			

1.1.4 Open-circuit peak voltage, Short-circuit peak current

1.2/50 μ s Open-circuit voltage				8/20 μ s Short-circuit current			
Indicated voltage [kV]	Measured [kV]	Limits [kV]	Results	Indicated voltage [kV]	Measured [kA]	Limits [kA]	Results
+0.5		+0.45 — +0.55		+0.5		+0.225 — +0.275	
-0.5		-0.45 — -0.55		-0.5		-0.225 — -0.275	
+1.0		+0.90 — +1.10		+1.0		+0.45 — +0.55	
-1.0		-0.90 — -1.10		-1.0		-0.45 — -0.55	
+2.0		+1.80 — +2.20		+2.0		+0.90 — +1.10	
-2.0		-1.80 — -2.20		-2.0		-0.90 — -1.10	
+4.0		+3.60 — +4.40		+4.0		+1.80 — +2.20	
-4.0		-3.60 — -4.40		-4.0		-1.80 — -2.20	

2 EUT port of the CDN

2.1 1.2/50 μ s combination wave (N-L1)

2.1.1 Front time

1.2/50 μ s Open-circuit voltage (N-L1)				8/20 μ s Short-circuit current (N-L1)			
Indicated voltage [kV]	Measured [μ s]	Limits [μ s]	Results	Indicated voltage [kV]	Measured [μ s]	Limits [μ s]	Results
+0.5		1.2(\pm 30 %) (0.84-1.56)		+0.5		8(\pm 20 %) (6.4-9.6)	
-0.5				-0.5			
+1.0				+1.0			
-1.0				-1.0			
+2.0				+2.0			
-2.0				-2.0			
+4.0				+4.0			
-4.0				-4.0			

2.1.2 Time to half value

1.2/50 μ s Open-circuit voltage (N-L1)				8/20 μ s Short-circuit current (N-L1)			
Indicated voltage [kV]	Measured [μ s]	Limits [μ s]	Results	Indicated voltage [kV]	Measured [μ s]	Limits [μ s]	Results
+0.5		50 μ s+10 μ s /-15 μ s (35-60)		+0.5		20(\pm 20 %) (16-24)	
-0.5				-0.5			
+1.0				+1.0			
-1.0				-1.0			
+2.0				+2.0			
-2.0				-2.0			
+4.0				+4.0			
-4.0				-4.0			

2.1.3 Undershoot

1.2/50 μ s Open-circuit voltage (N-L1)				8/20 μ s Short-circuit current (N-L1)			
Indicated voltage [kV]	Measured [%]	Limits [%]	Results	Indicated voltage [kV]	Measured [%]	Limits [%]	Results
+0.5		N/A		+0.5		N/A	
-0.5				-0.5			
+1.0				+1.0			
-1.0				-1.0			
+2.0				+2.0			
-2.0				-2.0			
+4.0				+4.0			
-4.0				-4.0			

2.1.4 Open-circuit peak voltage, Short-circuit peak current

1.2/50 μ s Open-circuit voltage (N-L1)				8/20 μ s Short-circuit current (N-L1)			
Indicated voltage [kV]	Measured [kV]	Limits [kV]	Results	Indicated voltage [kV]	Measured [kA]	Limits [kA]	Results
+0.5		N/A		+0.5		N/A	
-0.5		N/A		-0.5		N/A	
+1.0		N/A		+1.0		N/A	
-1.0		N/A		-1.0		N/A	
+2.0		N/A		+2.0		N/A	
-2.0		N/A		-2.0		N/A	
+4.0		N/A		+4.0		N/A	
-4.0		N/A		-4.0		N/A	

1.3 Phase shifting

1.3.1 N-L1

Phase angle [deg]	Indicated voltage [kV]	Measured		Limits		Results
		Time [ms]	Phase angle [deg]	Time [ms]	Phase angle [deg]	
0	+1.0			-0.555 - 0.555	0(±10)	
	-1.0					
90	+1.0			4.445 - 5.555	90(±10)	
	-1.0					
180	+1.0			9.445 - 10.555	180(±10)	
	-1.0					
270	+1.0			14.445 - 15.555	270(±10)	
	-1.0					
電源電圧設定: AC 231.84 V / 50 Hz						

1.4 Effective output impedance

1.4.1 1.2/50 μs combination wave

Table 10: 1000 V combination wave					
Indicated voltage	Open-circuit peak voltage	Short-circuit peak current	Effective output impedance	Limits	Results
[kV]	[kV]	[kA]	[Ω]	[Ω]	
+0.5				2(±10 %) (1.8-2.2)	
-0.5					
+1.0					
-1.0					
+2.0					
-2.0					
+4.0					
-4.0					
Effective output impedance = Open-circuit peak voltage / Short-circuit peak current					

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2.5 1.2/50 μ s combination wave (L1-L2)

2.5.1 Front time

1.2/50 μ s Open-circuit voltage (L1-L2)				8/20 μ s Short-circuit current (L1-L2)			
Indicated voltage [kV]	Measured [μ s]	Limits [μ s]	Results	Indicated voltage [kV]	Measured [μ s]	Limits [μ s]	Results
+0.5		1.2(\pm 30 %) (0.84-1.56)		+0.5		8(\pm 20 %) (6.4-9.6)	
-0.5				-0.5			
+1.0				+1.0			
-1.0				-1.0			
+2.0				+2.0			
-2.0				-2.0			
+4.0				+4.0			
-4.0				-4.0			

2.5.2 Time to half value

1.2/50 μ s Open-circuit voltage (L1-L2)				8/20 μ s Short-circuit current (L1-L2)			
Indicated voltage [kV]	Measured [μ s]	Limits [μ s]	Results	Indicated voltage [kV]	Measured [μ s]	Limits [μ s]	Results
+0.5		50 μ s +10 μ s /-15 μ s (35-60)		+0.5		20(\pm 20 %) (16-24)	
-0.5				-0.5			
+1.0				+1.0			
-1.0				-1.0			
+2.0				+2.0			
-2.0				-2.0			
+4.0				+4.0			
-4.0				-4.0			

2.5.3 Undershoot

1.2/50 μ s Open-circuit voltage (L1-L2)				8/20 μ s Short-circuit current (L1-L2)			
Indicated voltage [kV]	Measured [%]	Limits [%]	Results	Indicated voltage [kV]	Measured [%]	Limits [%]	Results
+0.5	22.5	N/A	N/A	+0.5	12.9	N/A	N/A
-0.5	22.6		N/A	-0.5	12.4		N/A
+1.0	23.8		N/A	+1.0	13.7		N/A
-1.0	20.3		N/A	-1.0	12.6		N/A
+2.0	23.9		N/A	+2.0	28.1		N/A
-2.0	20.9		N/A	-2.0	27.0		N/A
+4.0	23.4		N/A	+4.0	28.8		N/A
-4.0	22.2		N/A	-4.0	28.8		N/A

2.5.4 Open-circuit peak voltage, Short-circuit peak current

1.2/50 μ s Open-circuit voltage (L1-L2)				8/20 μ s Short-circuit current (L1-L2)			
Indicated voltage [kV]	Measured [kV]	Limits [kV]	Results	Indicated voltage [kV]	Measured [kA]	Limits [kA]	Results
+0.5		N/A		+0.5		N/A	
-0.5		N/A		-0.5		N/A	
+1.0		N/A		+1.0		N/A	
-1.0		N/A		-1.0		N/A	
+2.0		N/A		+2.0		N/A	
-2.0		N/A		-2.0		N/A	
+4.0		N/A		+4.0		N/A	
-4.0		N/A		-4.0		N/A	