



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

APPLICATION FOR HCAI SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0801

HCAI Special Seismic Certification Preapproval (OSP)

Type: ☒ New ☐ Renewal

Manufacturer Information

Manufacturer: LS ELECTRIC

Manufacturer's Technical Representative: Jeong Jae Ho

Mailing Address: 68, Wolmyeong-ro 201, Heung deok-gu, Cheongju-si, Chungcheongbuk-do, Republic of Korea

Telephone: +82-10-6250-9314

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Product Information

Product Name: See Certified Product Table

Product Model Number(s): See Certified Product Tables

Product Category: Switchgear/Switchboards

Product Sub-Category: Switchgear - Medium Voltage

General Description: Low voltage switchgears 800A - 6000A arc resistant (AR) and non-arc resistant (NAR);
Medium voltage switchgears 1200A - 4000A arc resistant (AR) and non-arc resistant (NAR)

Mounting Description: Base Mounted Rigid

Tested Seismic Enhancements: None

Applicant Information

Applicant Company Name: VMC Group

Contact Person: John Giuliano

Mailing Address: 113 Main Street, Bloomingdale, NJ 07403

Telephone: (973) 838-1780

Email: john.giuliano@thevmcgroup.com

Title: President



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California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)

Company Name: THE VMC GROUP

Name: Kenneth Tarlow

California License Number: S2851

Mailing Address: 980 9th Street, 16th Floor, Sacramento, CA 95814

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Certification Method

☐ GR-63-Core

☒ ICC-ES AC156

☐ IEEE 344

☐ IEEE 693

☐ NEBS 3

☐ Other (Please Specify): _____

Testing Laboratory

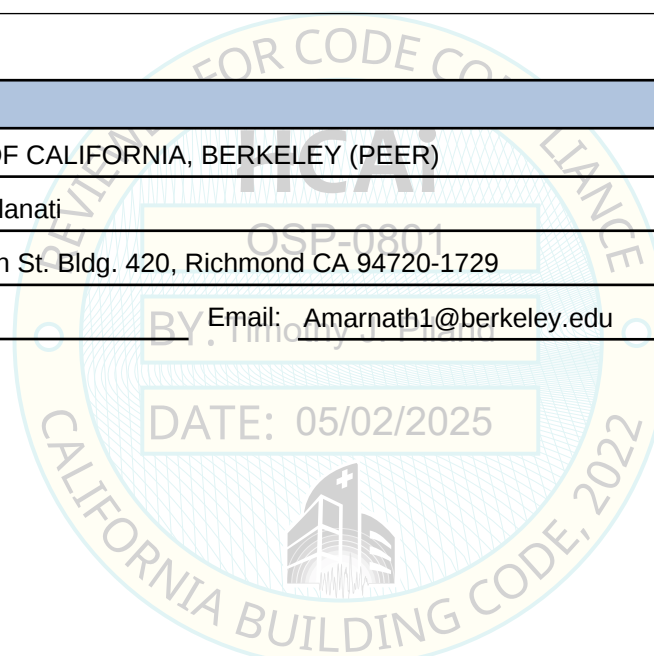
Company Name: UNIVERSITY OF CALIFORNIA, BERKELEY (PEER)

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Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) = 1.46 ($z/h=1$) & 1.35 ($z/h=0$)

SDs (Design spectral response acceleration at short period, g) = 1.95 ($z/h=1$) & 3.0 ($z/h=0$)

a_p (Amplification factor) = 2.5

R_p (Response modification factor) = 6.0

Ω_0 (System overstrength factor) = 2.0

I_p (Importance factor) = 1.5

z/h (Height ratio factor) = 1 and 0

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = See Attachment

HCAI Approval (For Office Use Only) - Approval Expires on 06/02/2031

Date: 6/2/2025

Name: Timothy Piland

Title: Senior Structural Engineer

Special Seismic Certification Valid Up to: SDs (g) = See Above

z/h = See Above

Condition of Approval (if applicable):

Table 1A: Certified Low Voltage Switchgears - Ganged

Family	Model ¹	Voltage [V]	STC Rating [kA]	ACB Type	Rating [A]	Dimensions [in]			Max Weight [lb]	UUT
						Width	Depth	Height		
Super Solution Arc Resistant	USG-zAyyDxDx-1	254, 508, 635	65, 85, 100, 130	D/D	800, 1000, 1200, 1600	40	62	98	3,650	Extrapolated
	USG-zAyyDxDx-2	254, 508, 635	65, 85, 100, 130	D/D	800, 1000, 1200, 1600	40	72	98	3,758	Extrapolated
	USG-zAyyDxDx-3	254, 508, 635	65, 85, 100, 130	D/D	800, 1000, 1200, 1600	40	78.8	98	3,836	Extrapolated
	USG-zAyyDxDx-4	254, 508, 635	65, 85, 100, 130	D/D	800, 1000, 1200, 1600	40	106.3	98	4,112	Extrapolated
	USG-zAyyDxDx-5	254, 508, 635	65, 85, 100, 130	D/D	800, 1000, 1200, 1600	40	118.1	98	4,178	Extrapolated
	USG-zAyyDxDx-6	254, 508, 635	65, 85, 100, 130	D/D	800, 1000, 1200, 1600	40	119	98	4,190	Extrapolated
	USG-zAyyDxEx-1	254, 508, 635	65, 85, 100, 130	D/E	800, 1000, 1200, 1600, 2000, 2500, 3200	42	62	98	3,820	Extrapolated
	USG-zAyyDxEx-2	254, 508, 635	65, 85, 100, 130	D/E	800, 1000, 1200, 1600, 2000, 2500, 3200	42	72	98	3,930	Extrapolated
	USG-zAyyDxEx-3	254, 508, 635	65, 85, 100, 130	D/E	800, 1000, 1200, 1600, 2000, 2500, 3200	42	78.8	98	4,012	Extrapolated
	USG-zAyyDxEx-4	254, 508, 635	65, 85, 100, 130	D/E	800, 1000, 1200, 1600, 2000, 2500, 3200	42	106.3	98	4,296	Extrapolated
	USG-zAyyDxEx-5	254, 508, 635	65, 85, 100, 130	D/E	800, 1000, 1200, 1600, 2000, 2500, 3200	42	118.1	98	4,365	Extrapolated
	USG-zAyyDxEx-6	254, 508, 635	65, 85, 100, 130	D/E	800, 1000, 1200, 1600, 2000, 2500, 3200	42	119	98	4,360	Extrapolated
	USG-zAyyDxEx-1	254, 508, 635	65, 85, 100, 130	E/E	800, 1000, 1200, 1600, 2000, 2500, 3200	44	62	98	3,990	Extrapolated
	USG-zAyyDxEx-2	254, 508, 635	65, 85, 100, 130	E/E	800, 1000, 1200, 1600, 2000, 2500, 3200	44	72	98	4,098	Extrapolated
	USG-zAyyDxEx-3	254, 508, 635	65, 85, 100, 130	E/E	800, 1000, 1200, 1600, 2000, 2500, 3200	44	78.8	98	4,176	Extrapolated
	USG-zAyyDxEx-4	254, 508, 635	65, 85, 100, 130	E/E	800, 1000, 1200, 1600, 2000, 2500, 3200	44	106.3	98	4,452	Extrapolated
	USG-zAyyDxEx-5	254, 508, 635	65, 85, 100, 130	E/E	800, 1000, 1200, 1600, 2000, 2500, 3200	44	118.1	98	4,518	Extrapolated
	USG-zAyyDxEx-6	254, 508, 635	65, 85, 100, 130	E/E	800, 1000, 1200, 1600, 2000, 2500, 3200	44	119	98	4,530	Extrapolated
	USG-zAyyDxGx-1	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	60	62	98	5,687	Extrapolated
	USG-zAyyDxGx-2	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	60	72	98	5,845	Extrapolated
	USG-zAyyDxGx-3	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	60	78.8	98	5,923	Extrapolated
	USG-zAyyDxGx-4	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	60	106.3	98	6,199	Extrapolated
	USG-zAyyDxGx-5	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	60	118.1	98	6,265	Extrapolated
	USG-zAyyDxGx-6	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	60	119	98	6,277	Extrapolated
	USG-zAyyDxGx-7	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	63	62	98	5,804	Extrapolated
	USG-zAyyDxGx-8	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	63	72	98	5,912	Extrapolated
	USG-zAyyDxGx-9	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	63	78.8	98	5,990	Extrapolated
	USG-zAyyDxGx-10	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	63	106.3	98	6,266	Extrapolated
	USG-zAyyDxGx-11	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	63	118.1	98	6,332	Extrapolated
	USG-zAyyDxGx-12	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	63	119	98	6,344	Extrapolated
	USG-zAyyDxGx-13	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	66	62	98	5,924	Extrapolated
	USG-63A65100D16G60-13	635	65 / 100	D/G	800/1600 6000	66	63	98	6,018	UUT-2
	USG-zAyyDxGx-14	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	66	72	98	6,032	Interpolated
	USG-zAyyDxGx-15	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	66	78.8	98	6,110	Interpolated
	USG-zAyyDxGx-16	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	66	106.3	98	6,386	Interpolated
	USG-zAyyDxGx-17	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	66	118.1	98	6,452	Interpolated
	USG-zAyyDxGx-18	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	66	119	98	6,464	Interpolated
	USG-zAyyDxGx-1	254, 508, 635	65, 85, 100, 130	E/G	800, 1000, 1200, 1600, 2000, 2500, 3200	68	62	98	6,148	Interpolated
	USG-zAyyDxGx-2	254, 508, 635	65, 85, 100, 130	E/G	800, 1000, 1200, 1600, 2000, 2500, 3200	68	72	98	6,256	Interpolated
	USG-zAyyDxGx-3	254, 508, 635	65, 85, 100, 130	E/G	800, 1000, 1200, 1600, 2000, 2500, 3200	68	78.8	98	6,334	Interpolated
	USG-zAyyDxGx-4	254, 508, 635	65, 85, 100, 130	E/G	800, 1000, 1200, 1600, 2000, 2500, 3200	68	106.3	98	6,610	Interpolated
	USG-zAyyDxGx-5	254, 508, 635	65, 85, 100, 130	E/G	800, 1000, 1200, 1600, 2000, 2500, 3200	68	118.1	98	6,676	Interpolated
	USG-635A85100E32G60	635	85 / 100	E/G	3200 6000	68	119	98	8,057	UUT-1
	USG-zAyyGxGx-1	254, 508, 635	65, 85, 100, 130	G/G	3200, 4000, 5000, 6000	88	62	98	8,057	Extrapolated
	USG-zAyyGxGx-2	254, 508, 635	65, 85, 100, 130	G/G	3200, 4000, 5000, 6000	88	72	98	8,057	Extrapolated
	USG-zAyyGxGx-3	254, 508, 635	65, 85, 100, 130	G/G	3200, 4000, 5000, 6000	88	78.8	98	8,057	Extrapolated
	USG-zAyyGxGx-4	254, 508, 635	65, 85, 100, 130	G/G	3200, 4000, 5000, 6000	88	106.3	98	8,057	Extrapolated
	USG-zAyyGxGx-5	254, 508, 635	65, 85, 100, 130	G/G	3200, 4000, 5000, 6000	88	118.1	98	8,057	Extrapolated
	USG-zAyyGxGx-6	254, 508, 635	65, 85, 100, 130	G/G	3200, 4000, 5000, 6000	88	119	98	8,057	Extrapolated

Notes:
¹For model nomenclature guide, see Figure 1A

Table 1A: Certified Low Voltage Switchgears - Ganged, Continued

Family	Model1	Voltage [V]	STC Rating [kA]	ACB Type	Rating [A]	Dimensions [in]			Max Weight [lb]	UUT ⁴
						Width	Depth	Height		
Super Solution Non-Arc Resistant	USG-zNyyDxDx-1	254, 508, 635	65, 85, 100, 130	D/D	800, 1000, 1200, 1600	40	62	98	3,584	Extrapolated
	USG-zNyyDxDx-2	254, 508, 635	65, 85, 100, 130	D/D	800, 1000, 1200, 1600	40	72	98	3,692	Extrapolated
	USG-zNyyDxDx-3	254, 508, 635	65, 85, 100, 130	D/D	800, 1000, 1200, 1600	40	78.8	98	3,770	Extrapolated
	USG-zNyyDxDx-4	254, 508, 635	65, 85, 100, 130	D/D	800, 1000, 1200, 1600	40	106.3	98	4,046	Extrapolated
	USG-zNyyDxDx-5	254, 508, 635	65, 85, 100, 130	D/D	800, 1000, 1200, 1600	40	118.1	98	4,112	Extrapolated
	USG-zNyyDxDx-6	254, 508, 635	65, 85, 100, 130	D/D	800, 1000, 1200, 1600	40	119	98	4,124	Extrapolated
	USG-zNyyDxEx-1	254, 508, 635	65, 85, 100, 130	D/E	800, 1000, 1200, 1600, 2000, 2500, 3200	42	62	98	3,754	Extrapolated
	USG-zNyyDxEx-2	254, 508, 635	65, 85, 100, 130	D/E	800, 1000, 1200, 1600, 2000, 2500, 3200	42	72	98	3,864	Extrapolated
	USG-zNyyDxEx-3	254, 508, 635	65, 85, 100, 130	D/E	800, 1000, 1200, 1600, 2000, 2500, 3200	42	78.8	98	3,946	Extrapolated
	USG-zNyyDxEx-4	254, 508, 635	65, 85, 100, 130	D/E	800, 1000, 1200, 1600, 2000, 2500, 3200	42	106.3	98	4,230	Extrapolated
	USG-zNyyDxEx-5	254, 508, 635	65, 85, 100, 130	D/E	800, 1000, 1200, 1600, 2000, 2500, 3200	42	118.1	98	4,299	Extrapolated
	USG-zNyyDxEx-6	254, 508, 635	65, 85, 100, 130	D/E	800, 1000, 1200, 1600, 2000, 2500, 3200	42	119	98	4,294	Extrapolated
	USG-zNyyExEx-1	254, 508, 635	65, 85, 100, 130	E/E	800, 1000, 1200, 1600, 2000, 2500, 3200	44	62	98	3,924	Extrapolated
	USG-zNyyExEx-2	254, 508, 635	65, 85, 100, 130	E/E	800, 1000, 1200, 1600, 2000, 2500, 3200	44	72	98	4,032	Extrapolated
	USG-zNyyExEx-3	254, 508, 635	65, 85, 100, 130	E/E	800, 1000, 1200, 1600, 2000, 2500, 3200	44	78.8	98	4,110	Extrapolated
	USG-zNyyExEx-4	254, 508, 635	65, 85, 100, 130	E/E	800, 1000, 1200, 1600, 2000, 2500, 3200	44	106.3	98	4,386	Extrapolated
	USG-zNyyExEx-5	254, 508, 635	65, 85, 100, 130	E/E	800, 1000, 1200, 1600, 2000, 2500, 3200	44	118.1	98	4,452	Extrapolated
	USG-zNyyExEx-6	254, 508, 635	65, 85, 100, 130	E/E	800, 1000, 1200, 1600, 2000, 2500, 3200	44	119	98	4,464	Extrapolated
	USG-zNyyDxGx-1	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	60	62	98	5,621	Extrapolated
	USG-zNyyDxGx-2	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	60	72	98	5,779	Extrapolated
	USG-zNyyDxGx-3	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	60	78.8	98	5,857	Extrapolated
	USG-zNyyDxGx-4	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	60	106.3	98	6,133	Extrapolated
	USG-zNyyDxGx-5	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	60	118.1	98	6,199	Extrapolated
	USG-zNyyDxGx-6	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	60	119	98	6,211	Extrapolated
	USG-zNyyDxGx-7	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	63	62	98	5,738	Extrapolated
	USG-zNyyDxGx-8	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	63	72	98	5,846	Extrapolated
	USG-zNyyDxGx-9	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	63	78.8	98	5,924	Extrapolated
	USG-zNyyDxGx-10	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	63	106.3	98	6,200	Extrapolated
	USG-zNyyDxGx-11	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	63	118.1	98	6,266	Extrapolated
	USG-zNyyDxGx-12	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	63	119	98	6,278	Extrapolated
	USG-zNyyDxGx-13	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	66	62	98	5,858	Extrapolated ²
	USG-zNyyDxGx-14	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	66	72	98	5,966	Extrapolated
	USG-zNyyDxGx-15	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	66	78.8	98	6,044	Extrapolated
	USG-zNyyDxGx-16	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	66	106.3	98	6,320	Extrapolated
	USG-zNyyDxGx-17	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	66	118.1	98	6,386	Extrapolated
	USG-zNyyDxGx-18	254, 508, 635	65, 85, 100, 130	D/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	66	119	98	6,398	Extrapolated
	USG-zNyyExGx-1	254, 508, 635	65, 85, 100, 130	E/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	68	62	98	6,082	Extrapolated
	USG-zNyyExGx-2	254, 508, 635	65, 85, 100, 130	E/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	68	72	98	6,190	Extrapolated
	USG-zNyyExGx-3	254, 508, 635	65, 85, 100, 130	E/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	68	78.8	98	6,268	Extrapolated
	USG-zNyyExGx-4	254, 508, 635	65, 85, 100, 130	E/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	68	106.3	98	6,544	Extrapolated
	USG-zNyyExGx-5	254, 508, 635	65, 85, 100, 130	E/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	68	118.1	98	6,610	Extrapolated
	USG-zNyyExGx-6	254, 508, 635	65, 85, 100, 130	E/G	800, 1000, 1200, 1600, 2000, 2500, 3200, 4000, 5000, 6000	68	119	98	7,991	Extrapolated ²
	USG-zNyyGxGx-1	254, 508, 635	65, 85, 100, 130	G/G	3200, 4000, 5000, 6000	88	62	98	8,057	Extrapolated
	USG-zNyyGxGx-2	254, 508, 635	65, 85, 100, 130	G/G	3200, 4000, 5000, 6000	88	72	98	8,057	Extrapolated
	USG-zNyyGxGx-3	254, 508, 635	65, 85, 100, 130	G/G	3200, 4000, 5000, 6000	88	78.8	98	8,057	Extrapolated
	USG-zNyyGxGx-4	254, 508, 635	65, 85, 100, 130	G/G	3200, 4000, 5000, 6000	88	106.3	98	8,057	Extrapolated
	USG-zNyyGxGx-5	254, 508, 635	65, 85, 100, 130	G/G	3200, 4000, 5000, 6000	88	118.1	98	8,057	Extrapolated
	USG-zNyyGxGx-6	254, 508, 635	65, 85, 100, 130	G/G	3200, 4000, 5000, 6000	88	119	98	8,057	Extrapolated

Notes:

¹For model nomenclature guide, see Figure 1A

²NAR model similar to UUT-2

³NAR model similar to UUT-1

⁴NAR switchgears are a simplified versions of the tested arc resistant switchgears with regards to enclosures and internal subcomponents.

Table 1B: Certified Medium Voltage Switchgears - Ganged

Family ¹	Model	Voltage [kV]	STC Rating [kA]	Rating [A]	Dimensions [in]			Max Weight [lb]	UUT
					Width	Depth	Height		
Solution Power S5/15 UL AR Compact Type 1-High	UM1-zAyA1212-1	4.76, 15	25, 31.5	1200/1200	50	72	94	5,004	Extrapolated
	UM1-zAyA1212-2	4.76, 15	25, 31.5	1200/1200	50	84	94	5,004	Extrapolated
	UM1-zAyB1212-1	4.76, 15	25, 31.5	1200/1200	62	72	94	6,153	Extrapolated
	UM1-zAyB1212-2	4.76, 15	25, 31.5	1200/1200	62	84	94	6,153	Extrapolated
	UM1-zAyB2020-1	4.76, 15	25, 31.5	2000/2000	62	72	93	6,040	Extrapolated
	UM1-zAyB2020-2	4.76, 15	25, 31.5	2000/2000	62	84	93	6,130	Extrapolated
	UM1-15A31.5A1220-1	15	31.5	1200/2000	56	72	94	5,630	UUT-3 ²
Solution Power S5/15 UL AR Compact	UM2-zAyA1212-1	4.76, 15	25, 31.5	1200/1200 1200/1200	50	99	109	5,114	Interpolated
	UM2-zAyA1212-2	4.76, 15	25, 31.5	1200/1200 1200/1200	50	111	109	5,114	Interpolated
Solution Power S5/15 UL NAR LV Compartment Mid Type 2-High	UML-3-zNyA1212	4.76, 15	25, 31.5	1200/1200 1200/1200	62	92	101	5,366	Interpolated
	UML-3-zNyC1212	4.76, 15	25, 31.5	1200/1200 1200/1200	82	92	101	6,131	Interpolated
	UML-3-zNyA1212	4.76, 15	40, 50	1200/1200 1200/1200	62	92	101	6,140	Interpolated
	UML-3-zNyC1212	4.76, 15	40, 50	1200/1200 1200/1200	82	92	101	7,005	Interpolated
	UML-3-zNyA2020	4.76, 15	25, 31.5	2000/2000	62	92	101	6,097	Interpolated
	UML-3-zNyC2020	4.76, 15	25, 31.5	2000/2000	82	92	101	6,989	Interpolated
	UML-3-zNyA2020	4.76, 15	25, 31.5	2000/2000	82	92	101	6,989	Interpolated
Solution Power S5/15 UL NAR VCB Mid Type 2-High	UMV-1-zNyA1212	4.76, 15	25, 31.5	1200/1200 1200/1200	62	70	89	5,366	Interpolated
	UMV-1-zNyC1212	4.76, 15	25, 31.5	1200/1200 1200/1200	82	70	89	6,231	Interpolated
	UMV-1-zNyA1212	4.76, 15	40, 50	1200/1200 1200/1200	62	70	89	6,479	Interpolated
	UMV-1-zNyC1212	4.76, 15	40, 50	1200/1200 1200/1200	82	70	89	7,344	Interpolated
	UMV-1-zNyA2020	4.76, 15	25, 31.5	2000/2000	62	70	89	6,097	Interpolated
	UMV-1-zNyC2020	4.76, 15	25, 31.5	2000/2000	82	70	89	6,989	Interpolated
	UMV-1-zNyA2020	4.76, 15	40, 50	2000/2000	62	70	89	7,059	Interpolated
	UMV-1-zNyC2020	4.76, 15	40, 50	2000/2000	82	70	89	7,951	Interpolated
	UMV-1-zNyC3030	4.76, 15	40, 50	3000/3000	72	70	89	8,035	Interpolated
Solution Power S5/15 UL NAR Typical Type 2-High	UMT-2-zNyA1212	4.76, 15	25, 31.5	1200/1200 1200/1200	62	104	91	5,807	Interpolated
	UMT-2-zNyC1212	4.76, 15	25, 31.5	1200/1200 1200/1200	82	104	91	6,672	Interpolated
	UMT-2-zNyA1212	4.76, 15	40, 50	1200/1200 1200/1200	62	104	91	6,920	Interpolated
	UMT-2-zNyC1212	4.76, 15	40, 50	1200/1200 1200/1200	82	104	91	7,785	Interpolated
	UMT-2-zNyA2020	4.76, 15	25, 31.5	2000/2000	62	104	91	6,538	Interpolated
	UMT-2-zNyC2020	4.76, 15	25, 31.5	2000/2000	82	104	91	7,430	Interpolated
	UMT-2-zNyA2020	4.76, 15	40, 50	2000/2000	62	104	91	7,500	Interpolated
	UMT-2-zNyC2020	4.76, 15	40, 50	2000/2000	82	104	91	8,392	Interpolated
	UMT-2-zNyC3030	4.76, 15	40, 50	3000/3000	72	104	91	8,476	Interpolated
	UMT-2-zNyL4040	4.76, 15	40, 50	4000/4000	98	104	91	14,070	Interpolated
	UMT-2-15N50C4030	15	50	4000 3000/1200	83	142	122	14,070	UUT-4 ²
Solution Power S27 UL NAR Typical Type 2-High	UMT-2-27Nx1212	27	25, 31.5	1200/1200 1200/1200	75	142	111	7,002	Interpolated
	UMT-2-27N40C1212	27	40	1200/1200 1200/1200	75	142	111	7,046	Interpolated
	UMT-2-27Nx1212	27	25, 31.5	2000/2000	75	142	111	7,760	Interpolated
	UMT-2-27N40C2020	27	40	2000/2000	75	142	111	7,804	Interpolated
Solution Power S27 UL NAR LV Compartment Mid Type 2-High	UML-3-27Nx1212	27	25, 31.5	1200/1200 1200/1200	82	142	114	8,642	Interpolated
	UML-3-27N40C1212	27	40	1200/1200 1200/1200	82	142	114	8,642	Interpolated
	UML-3-27Nx2020	27	25, 31.5	2000/2000	82	142	114	8,852	Interpolated
	UML-3-27N40C2020	27	40	2000/2000	82	142	114	8,852	Interpolated
	UML-3-27Nx2525	27	25, 31.5	2500/2500	82	142	114	9,042	Interpolated
	UML-3-27N40C2525	27	40	2500/2500	82	142	114	9,042	Interpolated
	UML-3-27Nx2828	27	25, 31.5	2750/2750	82	142	112	9,042	Interpolated
	UML-3-27N40C2828	27	40	2750/2750	82	142	112	9,042	Interpolated
Solution Power S38 AR Type 1-High	UMT-1-38Ax1212	38	31.5, 40	1200/1200	87	118	87	10,490	Interpolated
	UMT-1-38Ax2020	38	31.5, 40	2000/2000	87	118	87	10,490	Interpolated
Solution Power S38 NAR Type 1-High	UMT-1-38NxD1212	38	31.5, 40	1200/1200	87	118	87	10,490	Interpolated
	UMT-1-38NxD2020	38	31.5, 40	2000/2000	87	118	87	10,490	Interpolated
	UML-3-27N40C25 UMT-1-38N40D20	27/38	40	2500/1200 2000	81	122	103	10,490	UUT-5 ²

Notes:

¹For model nomenclature guide, see Figure 1B
²Hybrid units not intended for production

Figure 1A: Nomenclature Guide for LV Super Solution Models

USG-zayybxw			
Variable	Definition	Allowable Value	Allowable Value Description
z	Voltage	25	254 V
		50	508 V
		63	635 V
a	Arc Resistance	A	Arc Resistant Gear
		N	Non-Arc Resistant Gear
y	S.C STC	65	65 kVA
		85	85 kVA
		10	100 kVA
		13	130 kVA
b	ACB Type	D	Cabinet Section D
		E	Cabinet Section E
		G	Cabinet Section G
x	Current	80	800 A
		10	1000 A
		12	1200 A
		16	1600 A
		20	2000 A
		25	2500 A
		32	3200 A
		40	4000 A
		50	5000 A
		60	6000 A
w	Unique footprint indicator for cabinets with varying WxD	1-18	width x depth

Figure 2B: Nomenclature Guide for MV Solution Power Models

UMv-zayyAxx-w			
Variable	Definition	Allowable Value	Allowable Value Description
v	Model Family	1	Compact Type 1-High
		2	Compact Type 2-High
		L-3	LV Compartment Mid Type 2-High
		V-1	VCB Mid Type 2-High
		T-2	Typical 2-High
		T-1	Typical 1-High
z	Voltage	4.76	4.76 kVA
		15	15 kVA
		27	27 kVA
		38	38 kVA
a	Arc Resistance	A	Arc Resistant Gear
		N	Non-Arc Resistant Gear
y	S.C STC	25	25 kA
		31.5	31.5 kA
		40	40 kA
		50	50 kA
b	Unique width indicator	A	value dependent on model family [in]
		B	61.9 in
		C	value dependent on model family [in]
		L	97.6 in
		D	87.1 in
x	Current	12	1200 A
		16	1600 A
		20	2000 A
		25	2500 A
		28	2750 A
w	Unique depth indicator for cabinets with varying depth	1-2	depth in 15

Table 2A: Certified Circuit Breaker Section

Model Number	Material	Manufacturer	Overall Dimensions [in]			Weight [lb]	UUT
			Width	Depth	Height		
USG-63N65D16	Steel	LS ELECTRIC	20	11.5	92	279	UUT-2
USG-63N85E32	Steel	LS ELECTRIC	22	11.5	92	281	UUT-1
USG-63N10G60	Steel	LS ELECTRIC	44	11.5	92	388	UUT-1, UUT-2

Table 3A: Certified Bus Section

Model Number	Material	Manufacturer	Overall Dimensions [in]			Weight [lb]	UUT
			Width	Depth	Height		
USG-63N65D16	Steel	LS ELECTRIC	20	27.5	92	162	UUT-2
USG-63N85E32	Steel	LS ELECTRIC	22	27.5	92	167	UUT-1
USG-63N10G60	Steel	LS ELECTRIC	44	27.5	92	287	UUT-1, UUT-2

Table 4A: Certified Cable Section

Model Number	Material	Manufacturer	Overall Dimensions [in]			Max Weight [lb]	UUT
			Width	Depth ¹	Height		
USG-63N65D16	Steel	LS ELECTRIC	20	24	92	275	UUT-2
	Steel	LS ELECTRIC	20	24 - 80	92	460	Interpolated
	Steel	LS ELECTRIC	20	80	92	460	Interpolated
USG-63N85E32	Steel	LS ELECTRIC	22	24	92	302	Interpolated
	Steel	LS ELECTRIC	22	24 - 80	92	507	Interpolated
	Steel	LS ELECTRIC	22	80	92	507	UUT-1
USG-63N10G60	Steel	LS ELECTRIC	44	24	92	424	UUT-2
	Steel	LS ELECTRIC	44	24 - 80	92	759	Interpolated
	Steel	LS ELECTRIC	44	80	92	759	UUT-1

¹Depth dimension can vary from 24 inches to 80 inches depending on specification needs

Table 5A: Certified Circuit Breakers

PNL Type	ACB Rating [Amps]	Manufacturer	PNL Size [in]			Weight [lb]	UUT
			Width	Depth	Height		
D	800	LS Electric	17	16	17	154	UUT-2
	1200					154	Interpolated
	1600					154	UUT-2
E	800		21	16	17	214	Interpolated
	1200					214	Interpolated
	1600					214	Interpolated
	2000					214	Interpolated
	2500					245	Interpolated
	3200					326	UUT-1
G	3200		40	16	18	489	Interpolated
	4000					489	UUT-2
	5000					489	Interpolated
	6000					709	UUT-1

Table 6A: Other Certified Subcomponents

Subcomponent	Part Number	Manufacturer	Description	Weight [lb]	UUT
Switch	YS-C3205-4/RSB	Yong Sung Electric Co	CAM Switch	<0.2	UUT-1, UUT-2
LED	YSBPL2-AL12R	Yong Sung Electric Co	Red LED	<0.2	
	YSBPL2-AL12G	Yong Sung Electric Co	Green LED	<0.2	
RRS Connector	70.310.1602.0	Wieland	MALE INSERT WITH WIRE PROTECTION, Ag	<0.2	
	70.300.1602.0	Wieland	FEMALE INSERT WITH WIRE PROTECTION,	<0.2	
Current Transformers	77123466203	Woonyoung Co	COIL ASS'Y,BUILT-IN CRADLE,800A,UL/ANSI-	2	
	77123466206	Woonyoung Co	COIL ASS'Y,BUILT-IN	2	
	77123467210	Woonyoung Co	COIL ASS'Y,BUILT-IN CRADLE, 3200A,UL/ANSI-E,3POLES- 3200/5A B-0.2	2	
	77123468205	Woonyoung Co	COIL ASS'Y BUILT_IN CRADLE. 4000A UL/ANSI-G3POL-4000/5A B-0.2 0.3CL	2	
	77123468207	Woonyoung Co	COIL ASS'Y BUILT_IN CRADLE. 6000A UL/ANSI-G , 3POL-6000/5A B-0.2 0.3CL-	2	

Table 2B: Certified Circuit Breaker Section

Model Number	Material	Manufacturer	Overall Dimensions [in]			Weight [lb]	UUT
			Width	Depth	Height		
Solution Power S5/15 UL AR	Steel	LS ELECTRIC	23.6	37.4	90.6	1,444	UUT-3
	Steel	LS ELECTRIC	29.5	37.4	90.6	1,528	UUT-3
Solution Power S5/15 UL NAR	Steel	LS ELECTRIC	47.2	60.4	99.1	2,778	UUT-4
	Steel	LS ELECTRIC	36	53.6	99.1	3,476	UUT-4
Solution Power S27 NAR & S38 AR	Steel	LS ELECTRIC	42	60.4	97.9	2,650	UUT-5
	Steel	LS ELECTRIC	36	63.4	97.9	3,094	UUT-5

Table 3B: Certified Bus Section

Model Number	Material	Manufacturer	Overall Dimensions [in]			Weight [lb]	UUT
			Width	Depth	Height		
Solution Power S5/15 UL AR	Steel	LS ELECTRIC	23.6	55.4	27.4	394	UUT-3
	Steel	LS ELECTRIC	29.5	55.4	27.4	447	UUT-3
Solution Power S5/15 UL NAR	Steel	LS ELECTRIC	47.2	19.9	99.1	1,100	UUT-4
	Steel	LS ELECTRIC	36	22.7	99.1	1,084	UUT-4
Solution Power S27 NAR & S38 AR	Steel	LS ELECTRIC	41.9	40.2	97.9	950	UUT-5
	Steel	LS ELECTRIC	36	28.7	97.9	1,032	UUT-5

Table 4B: Certified Cable Section

Model Number	Material	Manufacturer	Overall Dimensions [in]			Weight [lb]	UUT
			Width	Depth ¹	Height		
Solution Power S5/15 UL AR	Steel	LS ELECTRIC	23.6	34.5	61.2	891	UUT-3
	Steel	LS ELECTRIC	29.5	34.5	61.2	922	UUT-3
Solution Power S5/15 UL NAR	Steel	LS ELECTRIC	47.2	65.4	99.1	2,810	UUT-4
	Steel	LS ELECTRIC	36	65.4	99.1	2,774	UUT-4
Solution Power S27 NAR & S38 AR	Steel	LS ELECTRIC	42	21.5	97.9	1,397	UUT-5
	Steel	LS ELECTRIC	36	29.9	97.9	1,376	UUT-5

Table 5B: Certified PT Compartment

Model Number	Material	Manufacturer	Overall Dimensions [in]			Weight [lb]	UUT
			Width	Depth ¹	Height		
5/15kV PT compartment	Steel	LS ELECTRIC	26	37.3	23.8	361	UUT-3
38kV PT compartment	Steel	LS ELECTRIC	47.2	60.4	49.3	320	UUT-4

Table 6B: Certified Arc Duct

Model Number	Material	Manufacturer	Overall Dimensions [in]			Weight [lb]	UUT
			Width	Depth ¹	Height		
Solution Power S5/15 UL AR Type	Steel	LS ELECTRIC	29.5	72	19.7	488	UUT-3
Solution Power S5/15 Type	Steel	LS ELECTRIC	47.2	141.9	19.7	1,102	Interpolated
	Steel	LS ELECTRIC	47.2	141.9	19.7	1,102	Interpolated
Solution Power S27 Type	Steel	LS ELECTRIC	47.2	141.9	19.7	1,102	Interpolated
	Steel	LS ELECTRIC	47.2	141.9	19.7	1,102	Interpolated
Solution Power S38 NAR & AR Type	Steel	LS ELECTRIC	47.2	141.9	19.7	1,102	UUT-4

Table 7B: Certified Circuit Breakers

PNL Type	VCB Rating [kV, kA, A]	Manufacturer	PNL Size [in]			Weight [lb]	UUT
			Width	Depth	Height		
Solution Power S5/15 UL AR	5/15kV, 31.5kA, 1200A	LS ELECTRIC	19.8	25.3	27.2	287	UUT-3
	5/15kV, 31.5kA, 2000A	LS ELECTRIC	25.7	25.3	27.2	353	UUT-3
Solution Power S5/15 UL NAR	5/15kV, 50kA, 1200A	LS ELECTRIC	31.9	28.8	31.7	496	UUT-4
	5/15kV, 50kA, 3000A	LS ELECTRIC	31.9	28.8	31.7	574	UUT-4
	5/15kV, 50kA, 4000A	LS ELECTRIC	40.9	28.6	39.4	970	UUT-4
Solution Power S27 NAR & S38 AR	27kV, 40kA, 1200A	LS ELECTRIC	31.9	34.8	36.6	607	UUT-5
	27kV, 40kA, 2500A	LS ELECTRIC	31.9	34.8	36.6	706	UUT-5
	38kV, 40kA, 2000A	LS ELECTRIC	37.9	39.4	43.3	794	UUT-5

Table 8B: Other Certified Subcomponents

Subcomponent [MFR]	Part Number	Description	Weight [lb]	UUT
Current Transformer [Dongwoo Electric]	76023177130	UL-LSC-12(1200/5A)	31	UUT-3
	76023177131	UL-LSC-20(2000/5A)	31	UUT-1
	24060022316	UL-LSC-CON10(1200/5A)	66	UUT-2
	24060022317	UL-LSC-CON10(1200/5A)	66	UUT-2
	24060022320	UL-LSC-CON10(2000/5A)	66	UUT-2
	24060022667	UL-LSC-CON10-C(1200/5A)	49	UUT-3
	24060022108	UL-LSC-CON10-C(2500/5A)	49	UUT-3
	76024112006	DCIB-L81,2000/5A,38kV,C400	62	UUT-3
Power Transformer [Dongwoo Electric]	74673177021	DPE-15NF	144	UUT-1
	24210002460	DPE-36NF	374	UUT-2
PT Truck [Sanjeon Jungmil]	72314122200	UPTR-05PX/15PX	8	UUT-1
PT Bushing [Dongwoo Electric]	W44320895	PT TRUCK ASS'Y,38kV 3 Position	156	UUT-2
	45963177002	DFC-1700LS1	11	UUT-1
Insulation Support [Dongwoo Electric]	45964112002	BUSHING,ANSI,38kV	53	UUT-3
	02460000240	INSULATOR,6INCH,GDW20A15	4	UUT-1, UUT-2
	02460000302	INSULATOR,10INCH,GDW20A25	6	UUT-3
Wall Bushing [Young Hwa Industrial Electric]	02460000289	INSULATOR,11INCH,GDW20A30LS	7	UUT-3
	45963177010	UL-LSWB, 15kV 31.5kA	5	UUT-1
Wall Bushing [Dongwoo Electric]	45964191052	UL-LSWB27-12	17	UUT-3
	45964191050	UL-LSWB27-25	17	UUT-3
	45964191048	DWB-3812LS1	47	UUT-3
SWITCH ASS'Y [Sinwoo Electric]	62503177023	ON/OFF,EMERGENCY,STHN-LR220,HORIZON,UVCL	4	UUT-1
DEVICE ASS'Y [Sinwoo Electric]	52773177002	PT,SECONDARY,INTERLOCK,UVCL	7	UUT-1

Table 9B: Certified Circuit Breaker

Model	Voltage [kV]	STC Rating [kA]	VCB Type	Rating [A]	Overall Dimensions [in]			Weight [lb]	UUT
					Width	Depth	Height		
UVL-05H25R12	4.76	25	UVL	1200	23.2	20.0	26.4	188	Interpolated
UVL-05H25S12	4.76	25	UVL	1200	32.2	20.0	26.4	221	Interpolated
UVL-05H25B20	4.76	25	UVL	2000	32.2	20.0	26.4	276	Interpolated
UVL-05H32R12	4.76	31.5	UVL	1200	23.2	20.0	26.4	188	Interpolated
UVL-05H32S12	4.76	31.5	UVL	1200	32.2	20.0	26.4	221	Interpolated
UVL-05H32B20	4.76	31.5	UVL	2000	32.2	20.0	26.4	276	Interpolated
UVL-15H25R12	15	25	UVL	1200	23.2	20.0	26.4	188	Interpolated
UVL-15H25S12	15	25	UVL	1200	32.2	20.0	26.4	221	Interpolated
UVL-15H25B20	15	25	UVL	2000	32.2	20.0	26.4	276	Interpolated
UVL-15H32R12	15	31.5	UVL	1200	23.2	20.0	26.4	188	UUT-3
UVL-15H32S12	15	31.5	UVL	1200	32.2	20.0	26.4	221	Interpolated
UVL-15H32B20	15	31.5	UVL	2000	32.2	20.0	26.4	276	UUT-3
UVM-05H25A12	4.76	25	UVM	1200	21.8	28.9	26.7	221	Interpolated
UVM-05H25A20	4.76	25	UVM	2000	21.8	28.9	26.7	287	Interpolated
UVM-05H25C12	4.76	25	UVM	1200	31.8	28.9	26.7	265	Interpolated
UVM-05H25C20	4.76	25	UVM	2000	31.8	28.9	26.7	331	Interpolated
UVM-05H32A12	4.76	31.5	UVM	1200	21.8	28.9	26.7	221	Interpolated
UVM-05H32A20	4.76	31.5	UVM	2000	21.8	28.9	26.7	287	Interpolated
UVM-05H32C12	4.76	31.5	UVM	1200	31.8	28.9	26.7	265	Interpolated
UVM-05H32C20	4.76	31.5	UVM	2000	31.8	28.9	26.7	331	Interpolated
UVM-15H25A12	15	25	UVM	1200	21.8	28.9	26.7	221	Interpolated
UVM-15H25A20	15	25	UVM	2000	21.8	28.9	26.7	287	Interpolated
UVM-15H25C12	15	25	UVM	1200	31.8	28.9	26.7	265	Interpolated
UVM-15H25C20	15	25	UVM	2000	31.8	28.9	26.7	331	Interpolated
UVM-15H32A12	15	31.5	UVM	1200	21.8	28.9	26.7	221	Interpolated
UVM-15H32A20	15	31.5	UVM	2000	21.8	28.9	26.7	287	Interpolated
UVM-15H32C12	15	31.5	UVM	1200	31.8	28.9	26.7	265	Interpolated
UVM-15H32C20	15	31.5	UVM	2000	31.8	28.9	26.7	331	Interpolated
UVM-27H25C12	27	25	UVM	1200	31.8	30.9	33.9	287	Interpolated
UVM-27H25C20	27	25	UVM	2000	31.8	30.9	33.9	331	Interpolated
UVH-05H25C30	4.76	25	UVH	3000	31.9	28.8	31.7	574	Interpolated
UVH-05H25L40	4.76	25	UVH	4000	40.9	28.6	39.4	970	Interpolated
UVH-05H32C30	4.76	31.5	UVH	3000	31.9	28.8	31.7	574	Interpolated
UVH-05H32L40	4.76	31.5	UVH	4000	40.9	28.6	39.4	970	Interpolated
UVH-05H40A12	4.76	40	UVH	1200	21.9	28.8	31.7	430	Interpolated
UVH-05H40A20	4.76	40	UVH	2000	21.9	28.8	31.7	463	Interpolated
UVH-05H40C12	4.76	40	UVH	1200	31.9	28.8	31.7	463	Interpolated
UVH-05H40C20	4.76	40	UVH	2000	31.9	28.8	31.7	496	Interpolated
UVH-05H40C30	4.76	40	UVH	3000	31.9	28.8	31.7	574	Interpolated
UVH-05H40L40	4.76	40	UVH	4000	40.9	28.6	39.4	970	Interpolated
UVH-05H50A12	4.76	50	UVH	1200	21.9	31.7	28.8	463	Interpolated
UVH-05H50A20	4.76	50	UVH	2000	21.9	28.8	31.7	463	Interpolated
UVH-05H50C12	4.76	50	UVH	1200	31.9	31.7	28.8	496	Interpolated
UVH-05H50C20	4.76	50	UVH	2000	31.9	31.7	28.8	496	Interpolated
UVH-05H50C30	4.76	50	UVH	3000	31.9	28.8	31.7	574	Interpolated
UVH-05H50C40	4.76	50	UVH	4000	40.9	28.6	39.4	970	Interpolated
UVH-15H25C30	15	25	UVH	3000	31.9	28.8	31.7	574	Interpolated
UVH-15H25L40	15	25	UVH	4000	40.9	28.6	39.4	970	Interpolated
UVH-15H32C30	15	31.5	UVH	3000	31.9	28.8	31.7	574	Interpolated
UVH-15H32L40	15	31.5	UVH	4000	40.9	28.6	39.4	970	Interpolated
UVH-15H40A12	15	40	UVH	1200	21.9	28.8	31.7	430	Interpolated
UVH-15H40A20	15	40	UVH	2000	21.9	28.8	31.7	463	Interpolated
UVH-15H40C12	15	40	UVH	1200	31.9	28.8	31.7	463	Interpolated
UVH-15H40C20	15	40	UVH	2000	31.9	28.8	31.7	496	Interpolated
UVH-15H40C30	15	40	UVH	3000	31.9	28.8	31.7	574	Interpolated
UVH-15H40L40	15	40	UVH	4000	40.9	28.6	39.4	970	Interpolated
UVH-15H50A12	15	50	UVH	1200	21.9	31.7	28.8	463	Interpolated
UVH-15H50A20	15	50	UVH	2000	21.9	28.8	31.7	463	Interpolated
UVH-15H50C12	15	50	UVH	1200	31.9	31.7	28.8	496	UUT-4
UVH-15H50C20	15	50	UVH	2000	31.9	31.7	28.8	496	Interpolated
UVH-15H50C30	15	50	UVH	3000	31.9	28.8	31.7	574	UUT-4
UVH-15H50C40	15	50	UVH	4000	40.9	28.6	39.4	970	UUT-4
UVH-27H25C25	27	25	UVH	2500	31.9	34.8	36.6	706	Interpolated
UVH-27H25C28	27	25	UVH	2750	31.9	34.8	36.6	706	Interpolated
UVH-27H32C12	27	31.5	UVH	1200	31.9	34.8	36.6	607	Interpolated
UVH-27H32C20	27	31.5	UVH	2000	31.9	34.8	36.6	607	Interpolated
UVH-27H32C25	27	31.5	UVH	2500	31.9	34.8	36.6	706	Interpolated
UVH-27H32C28	27	31.5	UVH	2750	31.9	34.8	36.6	706	Interpolated
UVH-27H40C12	27	40	UVH	1200	31.9	34.8	36.6	607	UUT-5
UVH-27H40C20	27	40	UVH	2000	31.9	34.8	36.6	607	Interpolated
UVH-27H40C25	27	40	UVH	2500	31.9	34.8	36.6	706	UUT-5
UVH-27H40C28	27	40	UVH	2750	31.9	34.8	36.6	706	Interpolated
UVH-38H32E12	38	31.5	UVH	1200	37.9	39.4	43.3	882	Interpolated
UVH-38H32E20	38	31.5	UVH	2000	37.9	39.4	43.3	882	Interpolated
UVH-38H40E12	38	40	UVH	1200	37.9	39.4	43.3	882	Interpolated
UVH-38H40E20	38	40	UVH	2000	37.9	39.4	43.3	882	UUT-5



UNIT UNDER TEST (UUT) Summary Sheet

UUT-1

Test Report: 19536-2201

Model Line	Model Number	Manufacturer
Super Solution	USG-E2G1	LS ELECTRIC

Product Construction Summary

Circuit Breaker Section, Bus Section, Cable Section; Steel

Options / Subcomponent Summary

Enclosure Sections, Circuit Breakers, Switch, LED, Relays, RRS Connector, Current Transformers

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Width	Depth	Height	F-B	S-S	V
8,057	68.0	119.0	98.0	12.8	3.0	22.0

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS}	z/h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2019	ICC-ES AC156	1.98	1.0	1.5	3.17	2.38	-	-
		3.00	0.0	1.5	-	-	2.00	0.80

Test Mounting Details

UUT-1 was rigidly mounted to the shake table using (10) 3/4" diameter Grade 5 bolts.



All units were filled with contents and maintained structural integrity and functionality after AC-156 test.



UNIT UNDER TEST (UUT) Summary Sheet

UUT-2

Test Report: 19536-2201

Model Line	Model Number	Manufacturer
Super Solution	USG-D4G2	LS ELECTRIC

Product Construction Summary

Circuit Breaker Section, Bus Section, Cable Section; Steel

Options / Subcomponent Summary

Enclosure Sections, Circuit Breakers, Switch, LED, Relays, RRS Connector, Current Transformers

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Width	Depth	Height	F-B	S-S	V
6,018	66.0	63.0	98.0	8.4	5.2	20.5

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS}	z/h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2019	ICC-ES AC156	1.98	1.0	1.5	3.17	2.38	-	-
		3.00	0.0	1.5	-	-	2.00	0.80

Test Mounting Details

UUT-2 was rigidly mounted to the shake table using (10) 3/4" diameter Grade 5 bolts.



All units were filled with contents and maintained structural integrity and functionality after AC-156 test.



UNIT UNDER TEST (UUT) Summary Sheet

UUT-3

Test Report: PEER STI 2023-15; UUT-1

Model Line	Model Number	Manufacturer
Solution Power S5/15 UL	5/15 kV SWGR	LS ELECTRIC

Product Construction Summary

Circuit Breaker Section, Bus Section, Cable Section, Power Transformer Section; Steel

Options / Subcomponent Summary

Enclosure Sections, Circuit Breakers, Current Transformer, Power Transformer, PT Truck, PT Bushing, Insulation Support, Wall Bushing, Switch Assembly, Device Assembly

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Width	Depth	Height	F-B	S-S	V
5,630	56.0	72.0	93.6	15.5	11.7	16.9

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS}	z/h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2019	ICC-ES AC156	1.95	1.0	1.5	3.12	2.34	-	-
		3.00	0.0	1.5	-	-	2.00	0.80

Test Mounting Details

UUT-3 was rigidly mounted to the shake table using (10) 3/4" diameter Grade 5 bolts.



All units were filled with contents and maintained structural integrity and functionality after AC-156 test.



UNIT UNDER TEST (UUT) Summary Sheet

UUT-4

Test Report: PEER STI 2023-16; UUT-2

Model Line	Model Number	Manufacturer
Solution Power S5/15 UL	15/38 kV SWGR	LS ELECTRIC

Product Construction Summary

Circuit Breaker Section, Bus Section, Cable Section, Power Transformer Compartment, Arc Duct Section; Steel

Options / Subcomponent Summary

Enclosure Sections, Circuit Breakers, Current Transformer, Power Transformer, PT Truck, Insulation Support

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Width	Depth	Height	F-B	S-S	V
14,070	83.2	141.9	121.8	14.5	5.9	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS}	z/h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2019	ICC-ES AC156	1.95	1.0	1.5	3.12	2.34	-	-
		3.00	0.0	1.5	-	-	2.00	0.80

Test Mounting Details

UUT-4 was rigidly mounted to the shake table using (10) 3/4" diameter Grade 5 bolts.



All units were filled with contents and maintained structural integrity and functionality after AC-156 test.



UNIT UNDER TEST (UUT) Summary Sheet

UUT-5

Test Report: PEER STI 2023-17; UUT-3

Model Line	Model Number	Manufacturer
Solution Power S27	27/38 kV SWGR	LS ELECTRIC

Product Construction Summary

Circuit Breaker Section, Bus Section, Cable Section; Steel

Options / Subcomponent Summary

Enclosure Sections, Circuit Breakers, Current Transformer, PT Bushing, Insulation Support, Wall Bushing

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Width	Depth	Height	F-B	S-S	V
10,490	81.1	122.0	102.8	16.3	9.0	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS}	z/h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2019	ICC-ES AC156	1.95	1.0	1.5	3.12	2.34	-	-
		3.00	0.0	1.5	-	-	2.01	0.81

Test Mounting Details

UUT-5 was rigidly mounted to the shake table using (10) 3/4" diameter Grade 5 bolts.



All units were filled with contents and maintained structural integrity and functionality after AC-156 test.