



Beyond TM

Line Card

Power Solution



LS [®] **ELECTRIC**

FUTURING SMART ENERGY

FUTURING

Leading the way with new innovations that exceed our customers' expectations.

SMART

Creating an efficient and convenient future through convergence of Information and Communication Technology (ICT) and integration of sophisticated technologies.

ENERGY

Creating an abundant future by delivering safe and clean energy.



Power / Automation Sector
Total Solution Provider



Smart Grid, Smart Factory,
Smart Building
Solution Leading Company



Smart Energy Global Leader
including ESS, EMS, HVDC, PV

LS Group is a global conglomerate based in South Korea. Spun off for growth from LG Group in 2003. LS is an industry leader in electric power, automation, machinery, material and energy.



LS Group

EMPLOYEES	34,000
AFFILIATES	132
SALES	20.2 B USD
OPERATION INCOME	798 M USD

EMPLOYEES	4,378
SALES	3.3 B USD
OPERATION INCOME	208 M USD

* Financial figures in 2024

PT&T | POWER TESTING & TECHNOLOGY INSTITUTE



6th largest testing capacity lab in the world

Short circuit test capacity : 4,000MVA



Global standard activities with World Standards: IEC, UL, IEEE and many more.

Ensuring product reliability with rigorous performance tests.

MV/LV (~36kV)

MV test & Direct test for short-circuit generator

Ultra high voltage (~170kV)

Composite test

Credibility test considering real-use situation
EMC, environment/proof test



Pursuing global approvals with international certifications.



Synthetic test

* KOLAS : Korea Laboratory Accreditation Scheme

* ILAC-MRA : International Laboratory Accreditation Cooperation - Mutual Recognition Arrangement

Power Solution Systems



High Voltage Transformer



High levels of reliability and efficiency

Key Specification

- Up to 550kV 800MVA
- Indoor / Outdoor
- Oil immersed (Mineral / Ester)
- Special purpose
 - Scott Transformer
 - HVDC converter Transformer
 - Mobile Transformer
- ANSI/IEEE C57

Medium Voltage Metal-Clad Switchgear



World Smallest Footprint (24" Width) UL Listed Arc-Resistant MV SWGR

Key Specification

- **5/15kV AR Gear**
 - 1200A, 25/31.5kA (W24", 1/2 High)
 - 2000A, 25/31.5kA (W24", 1/2 High)
 - UL Listed, IEEE C37.20.2/C37.20.7
- **38kV AR Gear**
 - 1200/2000A, 31.5/40kA (W42", 1 High)
 - IEEE C37.20.2/C37.20.7

Key Specification

- **5/15kV NAR Gear**
 - 1200/2000A, 25/31.5/40/50kA (W26", 1/2 High)
 - 1200/2000/3000A, 25/31.5/40/50kA (W36", 1/2 High)
 - 4000A, 25/31.5/40/50kA (W47.2", 1 High)
 - UL Listed, IEEE C37.20.2, ANSI C37.55
- **27kV NAR Gear**
 - 1200/2000/2500/2750A, 25/31.5/40kA (W36", 2 High)
 - UL Listed, IEEE C37.20.2, ANSI C37.55
- **38kV NAR Gear**
 - 1200/2000/2500A, 31.5/40kA (W42", 1 High)
 - IEEE C37.20.2

Medium Voltage Metal-Enclosed Switchgear



High performance and durability, front accessible structure for maintenance

Key Specification

- 5/15kV Gear
 - 600/1200A, Up to 40kA/3s
 - 38kV Gear
 - 600A, Up to 31.5kA/3s
- 27/29kV Gear
 - 600/1200A, Up to 31.5kA/3s
- Type
 - Upright Type (Left/Right)
 - Inverted Type (Left/Right)
 - Manual & Power Operation
- NEMA Type 1 (Indoor)
 - NEMA Type 3R (Outdoor)
- UL Listed, IEEE C37.20.3, ANSI C35.51, CSA C22.2 No. 199 M93

*Inverted Type is applicable to 5/15kV Gear.
*Type 1 Scheduled for release in June 2025

Secondary Unit Substation



Maximize customer satisfaction, minimize footprints with flexible design

Key Specification

- **Primary:** MV SWGR (Metal-Clad / Metal-Enclosed / Duplex switch etc.)
- **Transformer:** Oil, Dry, Cast Coil etc.
- **Secondary:** MV or LV SWGR (UL1558 SWGR, UL891 SWBD, etc.)

Medium/Low Voltage Transformer



Maintenance Free, Minimizes Fire hazard (Cast Coil Transformer)

Key Specification

- **Pad-Mounted Transformer**
 - Up to 36kV / 10MVA
 - Mineral oil, Natural ester oil
 - Easy installation & transportation
 - ANSI, IEEE, NEMA certified
- **Cast Coil Transformer**
 - Up to 36kV / 30MVA
 - Al/Cu Coil, F(air)H Class
 - Low-noise and high-efficiency
 - IEC 60076-11, IEEE C57.12.01



Low Voltage Switchgear



Perfect solutions for critical power, heavy industry, Battery plants applications.

Key Specification

- D Frame (800-1600A/4 High/W20")
 - H-BUS 100kA, V-BUS 65kA
- E Frame (800-3200A/4 High/W22")
 - H-BUS 100kA, V-BUS 85kA
- G Frame (3200-6000A/2 High/W43")
 - H-BUS 100kA, V-BUS 100kA
- AR / Non-AR • NEMA Type 1
- Type 2B accessibility
- UL1558, ANSI C37.20.1/37.51/37.20.7

*H-BUS: Horizontal Busbar **V-BUS: Vertical Busbar

Low Voltage Switchboard



Ideal for use in various industrial, commercial, and green energy applications

Key Specification

- LSB 1 Series (Front Accessible)
 - up to 600/800V, ~100kA, ~6000A
- LSB1-I (Individually mounted section)
 - W26" (MOCB, Compact ACB, D Frame ACB) ~1600AF
 - W30" (E Frame) ~2500AF - W36" (E Frame) ~3200AF
 - W44" (G Frame) ~6000AF
- LSB1-G (Group mounted section)
 - W36"/42"/46"/50"/58" - D26"/32"/36"/40"/45"
 - interior capacity: 2000A/4000A/6000A
- LSB1-C (Combination section)
 - W36" (E Frame) ~3200AF, interior: 2000A/4000A
 - W44" (G Frame) ~6000AF, interior: 2000A/4000A/6000A

*Non-AR only **NEMA Type 1/2R • UL 891
*IEEE 693 High (2.5g), IEC TS AC 256 (2.5g)

Low Voltage Panelboard



Easy-to-install panelboard solution for a variety of commercial and industrial applications

Key Specification

- LPB-1 (Rail type)
 - Up to 480V, ~250A
 - Up to 100kA@240V, 65kA@480V - W24"
- LPB-2 (Rail type)
 - Up to 480V, ~600A
 - Up to 100kA@240/480V - W33"
- LPB-3 (Bolt-on type)
 - Up to 480V, ~1200A
 - Up to 100kA@240/480V - W28"/36"/40"
- NEMA type 1/3R • UL 67 Standards

*LPB: LSE PanelBoard Series

Protection/ Monitoring Devices



Next generation intelligent device

Key Specification

- XGIPAM
 - Applicable for Bay, Feeder, Transformer, Motor, Distributed generation
 - Analysis for sag, swell, up to 63th harmonics
 - UL Listed (UL508, UL1053)
- GIMAC1000
 - Compact & multi-functional monitoring device
 - DI 2points, High precision measurement
 - UL Listed

Energy Storage System



All-in-ONE Power ESS

Key Specification

- Compact & stand-alone
- Enables right-sizing of inverter systems
- 1hour rating/ 20ft
- Manufactured in U.S.A (LS Energy Solutions)



Modular String Platform

Key Specification

- 480/600/690V
- Standard 19" rack
- Parallel up to 16 units
- Enhanced longevity and efficiency with a master controller
- UL1741-SA incl. CA Rule 21

Power Solution Devices

Susol LIS

High performance and durability



Key Specification

- High performance such as STC, Load-switching, Fault-making, mechanical endurance etc.
- Diverse operation type and accessories
- Easy replacement of Load Interrupter Switch & Fuse
- General Specification
 - 4.75/15kV 40/64kA 600/1200A
 - STC 40kA/3s, Fault-making(asymmetrical) 64kA
 - 27/29kV 40/50.4kA 600/1200A
 - STC 31.5kA/3s, Fault-making(asymmetrical) 50.4kA
 - 38kV 40/50.4kA 600A
 - STC 31.5kA/3s, Fault-making(asymmetrical) 50.4kA
 - IEEE C37.20.4, ANSI C37.58, CSA C22.2 No.193.M83
 - UL/CSA Certified
 - Left/Right Operation & Upright/Inverted Type

*Inverted Type is applicable to 4.75/15kV.
*Works scheduled for release in June 2025.

Susol VCB

Maximized durability and reliability



Key Specification

- 7" Narrow design for compact panel (~15kV/50kA)
- Complete accessory offering(Auto con., remote racking)
- Front maintenance possible by applying ring CT
- High performance such as STC, mechanical endurance, Corona etc.
- General Specification
 - 4.75/15kV 25/31.5/40/50kA, 1200, 2000, 3000A, 4000A
 - 27kV, 25/31.5/40kA, 1200, 2000, 2500, 2750A
 - 38kV, 31.5/40kA, 1200, 2000, 3000A
- UL Listed / IEEE Std C37.09 / ANSI C37.54

Susol ACB

Optimized for compact panel size



Key Specification

- Compact size & high breaking capacity
- Multi-functional digital trip relays(N,A,P,S types)
 - L/S/I/G Protection, ERMS for safety maintenance
- N phase current conducting capacity: 100%
- General Specification
 - 3 Frame sizes: 1600/3200/6000AF
 - Rated maximum voltage: 254/508/635V
 - Breaking capacity: 85/100/130kA (at 508Vac)
 - UL Listed(UL1066) / ANSI / cUL

Susol MCCB

Engineered for optimal protection



Key Specification

- High breaking capacity
- Reverse feeding with its standard performance
- Wide range of accessories incl. flange handles
- Various trip unit: ATU, FMU, FTU, ETS, ETM, OCR
- General Specification
 - 6 Frame sizes: 100/150/250/400/600/800/1200AF
 - Ampere Range: 15 ~ 1200A
 - 100kA@480Vac / 50kA@600V
 - UL Listed(UL489 & 489OC and 508) / IEC60947-2

UL Smart MCCB



Key Specification

- Specialized in IDC, Renewable Energy, EV Charging Infrastructure
- Enhanced Protection and Monitoring
- Various Trip Unit : ETS(ETM)(ETH)(ETL)
- General Specifications
 - 6 Frame sizes : 150/250/400/600/800/1200AF
 - Ampere Range : 40~1200A
 - Breaking Capacity : Max 100kA@480Vac / 50kA@600Vac
- UL 489 / IEC 60947-2

Circuit Breakers for High Voltage

For renewable energy system



Key Specification

- UL ACB(UAW Series)
 - Up to 847Vac
 - Up to 3200A(E-F), 85kA@847Vac
 - UL Listed(UL 1066)
- UL MCCB(UTV Series)
 - Up to 1000Vac
 - Up to 250A, 30kA@1000Vac, 50kA@800Vac
 - UL/IEC Dual Rating(UL 489/IEC 60947-2,3)



Metasol Contactor & Relay

Compact size & High durability



Key Specification

- Wide ampere range up to 2650A
- Easy installation with 4-terminals coil type and interlock unit which built-in 2NC aux contacts
- Various accessories for applications (AC-6b duty)
- Ready for IE3
- General Specification
 - Ie: 6 ~ 2650A, Uimp = 8kV, Ui = Ue = 1,000V
 - Up to 900kW at 440V in category AC-3
 - UL Listed (UL508) / cUL / IEC60947-1,4-1,5-1

Metasol MMS(MPCB)

Safer through improved short circuit performance



Key Specification

- Multi protective function(phase-failure, short circuit, overload) in one product
- UL 508 Combination Motor Controller SCCR(Type E)
- Trip indicating function/Test function available
- General Specification
 - 0.1 ~ 100A with 3 Frame size
 - Ui = 690V, Magnetic release 13 Ie max.
 - Up to 45kW at 400V in category AC-3
 - UL Listed (UL508) / cUL / IEC60947-1,2,4

EMPR

Smart protection & safe control



Key Specification

- High accuracy for failure protection
- Installed at the World 4th airport (Incheon)
- A variety of standard types for suitable solution
- Adjustable trip time (trip class 5, 10, 15, 20, 30)
- EMC tested according to EN
- General Specification
 - Overload, phase failure, unbalance, reverse phase
 - MODBUS, 4~20mA DC output(DMP/IMP/MMP)
 - UL Listed / cUL / IEC60947-1,4-1

L-Series MCB

Ideal for circuit protection



Key Specification

- Available for various applications which require either UL489 or UL1077
- Multi-function terminal: Screw, Lug
- AX, AL, SHT, U/OVT, Locking Device
- Din Rail mounting
- UL489 MCB (LA63HU)
 - 1/2/3 Poles, 1~63A, B/C/D/K Curves, 10kA
- UL1077 MCB (LA63Hs)
 - 1/2/3/4 Poles, 1~63A, B/C/D Curves, 10kA

DC Components

For PV/ESS system application



Key Specification

- DC1500V DSU ACB (UDA Series)
 - Up to 4000A, 100kA (Compact: ~1200A, 50kA/1s)
 - UL Listed (UL489B & 489F)
- DC1500V MCCB (UTD Series)
 - Up to 550A, 65kA, 4 poles
 - UL Listed (UL489 & 489B)
- DC1500V Relay (GPR Series)
 - Up to 600A, Bi-directional structure applied
 - UL Listed (UL/IEC 60947-4-1)

Global Business



LS ELECTRIC sets a mid- to long-term vision for each overseas market to broaden its global business presence. In addition to pursuing the evolution of our existing businesses, we are discovering new business opportunities and strengthening the basis of business operations to take a tailor-made approach to each local market.

Europe Accelerating growth mainly in the renewable energy market.	Middle East & Southwest Asia Strengthening direct sales through localization.	China Strengthening business capabilities for power equipment and systems.
Southeast Asia Focusing on the sale of strategic products and project development.	North America Delivering global products and solutions, tapping into the Central and Latin American markets.	

Domestic Subsidiaries (as of Dec. 31, 2023)

LS Energy Manufacturing equipment and EPC projects Anyang, Seoul, Korea	LS Energy Manufacturing equipment Anyang, Seoul, Korea	LS Energy Manufacturing equipment Anyang, Seoul, Korea	LS Energy Manufacturing equipment Anyang, Seoul, Korea	ACOTerm Manufacturing equipment Anyang, Seoul, Korea	LS Energy Solutions Manufacturing equipment Anyang, Seoul, Korea	LS Energy Solutions Manufacturing equipment Anyang, Seoul, Korea
Head Office Anyang Seoul Office Yangsan Domestic Subsidiaries Cheongju, Cheonan, Suwon Domestic R&D Centers R&D Campus (Anyang), Electric Power R&D Center (Cheongju), Power Testing & Technology Institute (Cheongju), Automation R&D Center (Cheonan), HVAC R&D Center (Suwon)	Overseas Holding Company Shanghai (China), Chicago (US)	Overseas Production Subsidiaries Wuhan (China), Dalian (China), Liaohai (China), Hanoi (Vietnam), Daegu (US), Enock (US), Istanbul (Turkey), Jakarta (Indonesia)	Overseas Sales Subsidiaries Hoofddorp (Netherlands), Dubai (UAE), Tokyo (Japan), Chicago (US), Istanbul (Turkey), Jakarta (Indonesia), Madrid (Spain)	Overseas Branches Shanghai (China), Beijing (China), Guangzhou (China), Qingdao (China), Nanjing (China), Chengdu (China), Shenzhen (China), Tokyo (Japan), Hanoi (Vietnam), Ho Chi Minh (Vietnam), Moscow (Russia), Bangkok (Thailand), Santa Fe Springs (US), Singapore (Singapore), Bengaluru (India), Brescia (Italy), Rastrop Campus (US)	Overseas R&D Center Wuhan (China), Liaohai (China)	



www.LSElectricAmerica.com

LS ELECTRIC America Inc. Chicago Head Office

625 Heathrow Dr, Lincolnshire, IL 60069, USA Tel. 1-800-891-2941 E-Mail: sales.us@lselectricamerica.com

Headquarter 127 L.S-ro (Hogye-dong) Dongan-gu, Anyang-si, Gyeonggi-do, 14119, Korea

Seoul Office LS Yongsan Tower, 92, Hangang-daero, Yongsan-gu, Seoul, 04386, Korea Tel. 82-2-2034-4916, 4684, 4429

China

LS ELECTRIC (Dalian) Co., Ltd.
+86-411-8730-5872
china.dalian@lselectric.com.cn

LS ELECTRIC (Wuxi) Co., Ltd.
+86-510-8534-6666
china.wuxi@lselectric.com.cn

LS ELECTRIC (Lishui) Co., Ltd.
+86-133-6207-7980
china.lishui@lselectric.com.cn

Shanghai Office
+86-21-5237-9977
china@lselectric.com.cn

Beijing Office
+86-10-5095-1631
china@lselectric.com.cn

Guangzhou Office
+86-20-3818-2883
china@lselectric.com.cn

Qingdao Office
+86-532-8501-2065
china@lselectric.com.cn

Chengdu Office
+86-28-8670-3201
china@lselectric.com.cn

Nanjing Office
+86-25-8467-0005
china@lselectric.com.cn

India

India Office
+91-80-6142-9108
info_india@lselectric.com

Indonesia
PT. LS ELECTRIC INDONESIA
+62-21-2933-7614
indonesia@lselectric.com

PT SYMPHOS ELECTRIC
+62-81-1900-1474
marketing@sympnos-waitrat.com

Italy

Italy Office
+39-030-8081-833
italia@lselectric.com

Japan

LS ELECTRIC Japan Co., Ltd.
+81-3-6268-8241
japan@lselectric.com

Tokyo Office
+81-3-6268-8241
tokyo@lselectric.com

Netherlands

LS ELECTRIC Europe B.V.
+31-20-654-1424
europartner@lselectric.com

Russia

Moscow Office
+7-499-682-6130
info@lselectric-ru.com

Singapore

Singapore Office
+65-6958-8162
singapore@lselectric.com

Spain

LS ELECTRIC IBERIA S.L.U.
+34-910-28-02-74
iberia@lselectric.com

Thailand

Bangkok Office
+66-2-128-0295
thailand@lselectric.com

Türkiye

LS ELECTRIC Türkiye Co., Ltd.
+90-212-806-1252
turkiye@lselectric.com

U.A.E

LS ELECTRIC Middle East FZE (Dubai)
+971-4-886-5360
middleeast@lselectric.com

USA

LS ELECTRIC America Inc.
+1-800-891-2941
sales.us@lselectricamerica.com

LS ENERGY SOLUTIONS LLC
+1-980-221-0654
info@ls-es.com

MCM Engineering II
+1-435-865-0125
sales.us@lselectricamerica.com

America Western Office
+1-949-333-3140
america@lselectric.com

America Bastrop Campus
+1-224-352-2265
sales.us@lselectricamerica.com

Vietnam

LS ELECTRIC Vietnam Co., Ltd.
+84-222-2221-110
vietnam@lselectric.com

Hanoi Office

+84-24-6275-8054
vietnam@lselectric.com

Ho Chi Minh Office

+84-3823-7890
vietnam@lselectric.com

Specifications in this catalog are subject to change without notice due to continuous product development and improvement.

© 2022. 02 LS ELECTRIC Co., Ltd. All rights reserved. / English (06) 2025. 09 Staffcom