LG Energy Solution

The Beginning of Commercial Vehicle Innovation

LG Energy Solution's Automotive Batteries
for Commercial Vehicles

LG Energy Solution
Commercial Vehicle Marketing Department

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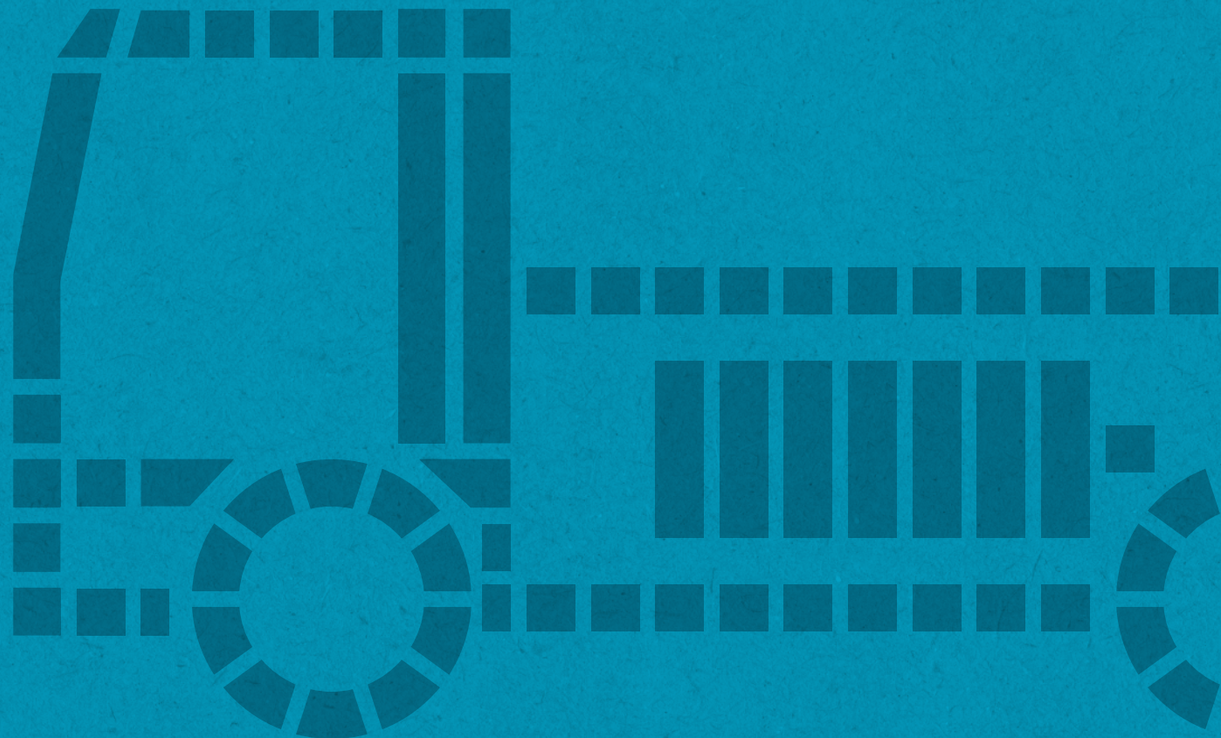


A Firm Global Leader in EV Batteries

Batteries play a pivotal role in determining EV performance.
As a firm global leader in the battery sector,
LG Energy Solution will initiate a new era in
electric commercial vehicles.

Pioneer of EV Battery Industry

LG Energy Solution's challenge to become the best in the world continues with stellar accomplishments in the EV market, such as delivering the world's first automobile battery in 2009 and developing the world's first NCMA high-capacity battery in 2021.

LG Energy Solution Milestone

1947
LG Chem Founded

1992
Began Lithium-ion Battery Research

1999
Lithium-ion Battery Mass Production

2000
Pouch Battery Mass Production

2009
Adopted by World's First Mass-produced EV, GM Volt

2012
Operation of U.S. Factory for EV Batteries (Holland)

2017
Operation of Poland Factory for EV Batteries (Wrocław)

2020
EV Battery Joint Venture with GM "Ultium Cells" Established

2021
EV Battery Joint Venture with HMC in Indonesia

2022
EV Battery Joint Venture with Stellantis 'Nextstar Energy' Established

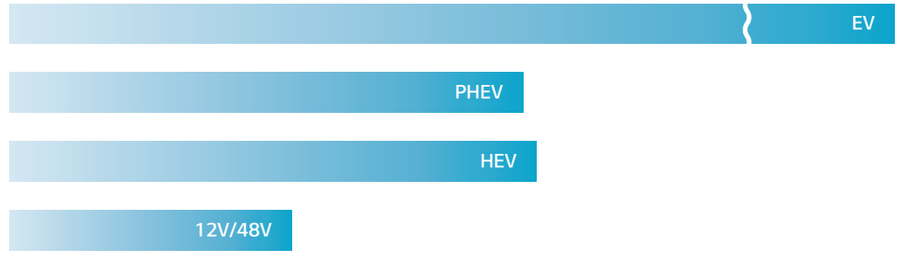
2023
Launch of an EV Joint Venture with Honda in the U.S.

Unparalleled EV Track Records

LG Energy Solution has carried out 79 xEV projects from 31 global automobile manufacturers, expanding its portfolio from cell to pack, and other various solutions.

LG Energy Solution's xEV Battery Adoption ('09~'22)

Since 2009, a total of 1.21B LG Energy Solution cells have been adopted to more than 7,453K xEVs.



Partnerships with Top Automobile Manufacturers

Volkswagen · Audi · Porsche · GM · Ford
Stellantis · Mercedes-Benz · Renault · Hyundai · Kia
Volvo · BMW · Jaguar · Land Rover · GMC

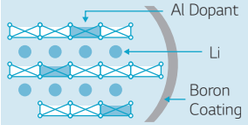
State-of-the-Art Lithium-ion Batteries

From materials to design, processing, and quality management, LG Energy Solution's accumulated expertise innovates all battery production stages to deliver the most robust batteries.

Ultra Power NCMA Cell

High-tech materials like 'NCMA cathode' and 'silicon anode' enable longer driving distances, faster charging, and longer product life.

High-capacity NCMA Cathode



Increase mileage by applying high-capacity materials

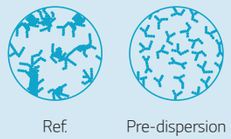
Highly Efficient SiO Anode

World's first automotive battery application (2019)

Innovative Processing Technology

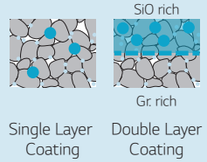
LG Energy Solution's technologies guarantee performance and quality by maximizing battery density, efficiency, and safety.

Pre-dispersion



World's first to apply CNT[1] in EV batteries (2020)

Double Layer Coating



Two-layered structure electrode design

※ 1) CNT : Carton Nanotube

Flexible Pouch Cell Design

Pouch cell design secures high energy density with longer battery life and customizable designs.

Higher Safety

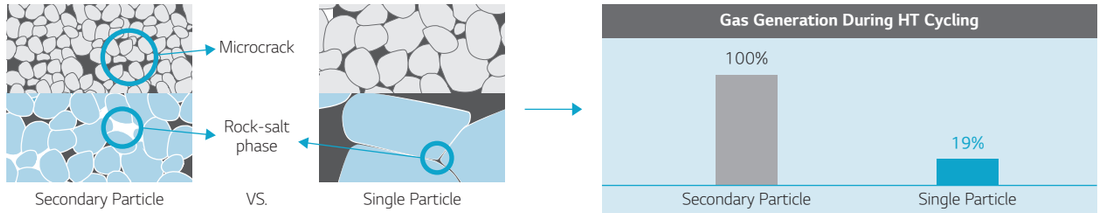
Rigorous safety technologies, such as SRS and BMS, prevent thermal risks or fire hazards and maintain high battery quality.

HV Mid-Ni Chemistry Technology

Our material technology improves durability and reduces gas generation in high-voltage Mid-Ni systems.

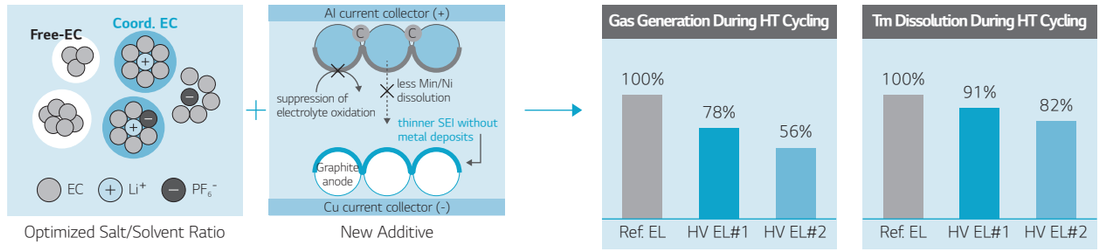
Single Particle Cathode Materials

Low effective surface area and high structural stability reduce gas generation and extend cycle life at high voltage.



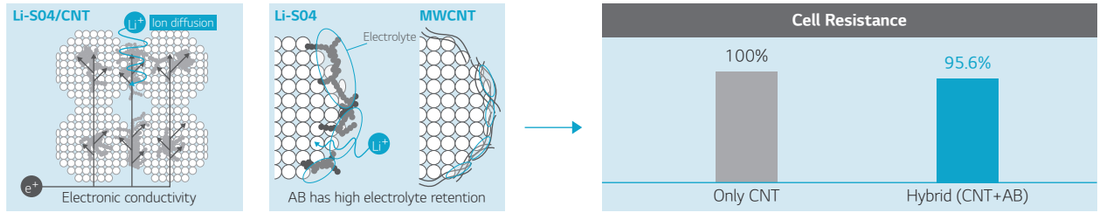
New Electrolyte for High Voltage System

Lowering electrolyte oxidation and metal dissolution extends high voltage cycle life while reducing gas.



Hybrid Conducting Agent System

0-Dimensional Conducting Agent: Higher electrolyte absorption for ionic path.
1-Dimensional Conducting Agent: High-conductivity electrical path.
→ Optimal ratio of 0D / 1D conducting agent reduces cell resistance and improves producibility.



Highly Optimized Solutions for Commercial Vehicles

The most ideal battery solutions for commercial vehicles are provided by LG Energy Solution based on its world-renowned technology and varieties of knowhow.

Standard Pack Solutions

Standard pack is a highly versatile solution that encompasses various vehicle types, ranging from buses to trucks.

High Energy Density

Mid-Ni chemistry allows high energy density, and is ideal for heavy-duty trucks that need extended driving time.

Longer Life Performance

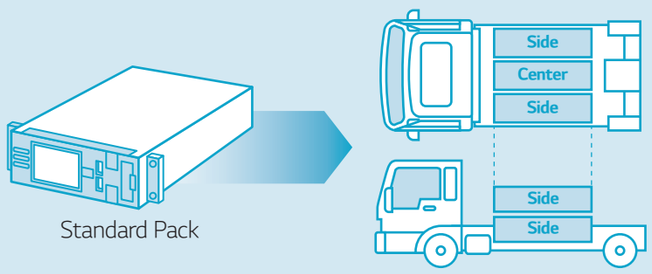
LG Energy Solution standard pack provides 4,000 cycle life and is able to achieve long life performance required for heavy duty trucks.

Light Weight Scalability

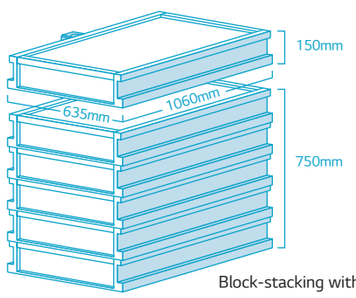
Thanks to its innovative and flexible pouch technology, LG Energy Solution standard pack is lightweight, which in turn enhances driving effciency and payload.

Easy to Apply

A single, optimized standard pack can be effortlessly mounted on various heavy-duty trucks.



LG Energy Solution's Standard Pack Product Details



Block-stacking without extra space

Chemistry	Mid-Ni	Size [mm]	1060 x 635 x 150 (W x D x H)
Form Factor	Pouch	Cycle	4000
Energy [kWh]	31.6	Cooling Type	Liquid
VED[1] [Wh/L]	318	Production Site	EU(ESWA) / NA(ESMI)
GED[2] [Wh/Kg]	230	Target SOP	2026.4Q

1) Volumetric Energy Density | 2) Gravimetric Energy Density * Some detail specifications could be changed

Standard BMS Solutions

LG Energy Solution's Standard BMS is the smartest approach to boost battery performance, leveraging expertise and advanced technology.

Extensive Expertise

Delivers excellent quality assurance confirmed by partnerships with various global OEMs.

Cost-Effective Solutions

Reduces engineering resources and verification costs through lowering EDnD costs and LG Energy Solution's internal quality protocols.

Advanced Safety Management

Applies specified diagnosis strategy* and supports system-level diagnosis.**

(*MAVD , SVD , OV, OC, OT, etc / **IR monitoring, Crash, HVIL , etc)

Optimized Performance and Lifetime

Realizes exceptional battery longevity and output with an advanced battery cell SOX algorithm.

Standard BMS Compatible with Various Applications

LG Energy Solution's Standard BMS is engineered to seamlessly integrate into diverse applications.

EV/PHEV
E-Truck/E-Bus

E-Bike
E-Scooters

Lawn Mower
Golf Carts

Robot AGV*
*AGV: Automatic Guided Vehicle

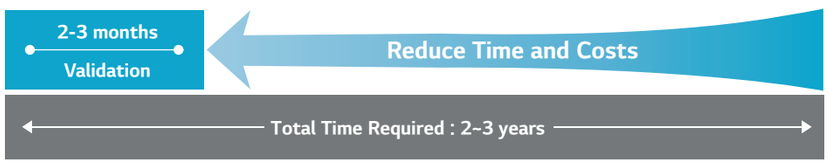
Saving Time and Costs

- Pre-development for OTS (Off-the-Shelf) products dramatically reduces both time and costs.
- LG Energy Solution's advanced safety diagnosis SW enhances vehicle safety.
- Safety check sheet validation process ensures the reliability of customer design.

Pre-development

VS.

New Development



Rigorous Safety Management with Competitive Safety Diagnosis SW

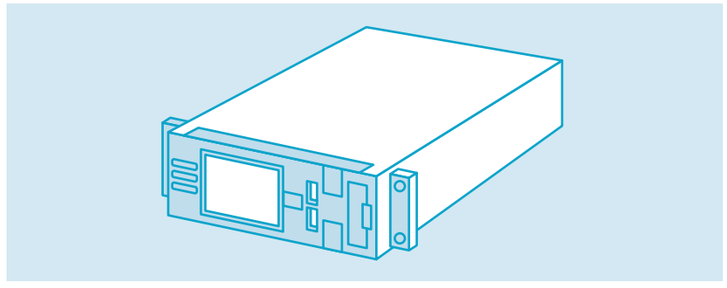
Since 2018, LG Energy Solution has been a leader in developing battery safety diagnosis software that detects cell defects, proven effective in mass production. Our research now advances in battery data analysis and diagnosis, thanks to our domain experts' knowledge.

Ensuring Safety and Reliability

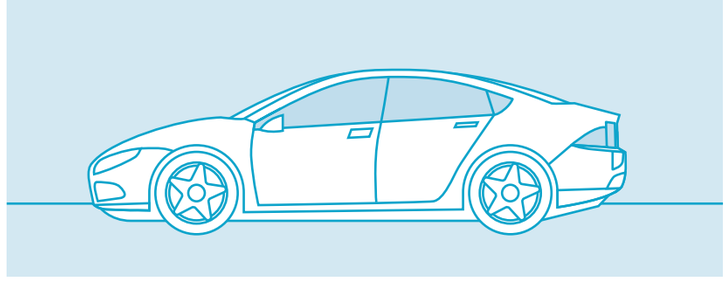
Our diagnosis software has been verified through extensive cell, pack, and vehicle testing, and is continuously improved through field data analysis after mass production.

Retrofit Cells Test
>10,000

Pack Test
>1,000



Vehicle Data
>100,000



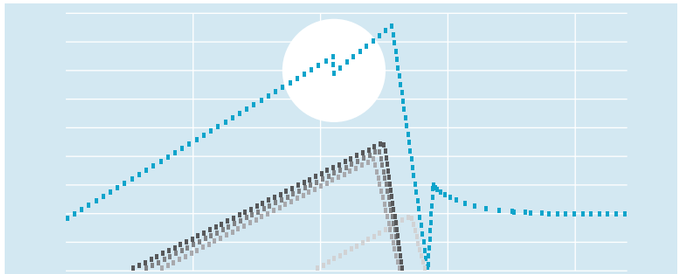
Advanced Safety Diagnosis

Through a comprehensive analysis and thorough detection of cell defects, we ensure the safety and stability of battery performance.

MAVD

Moving Average Voltage Deviation

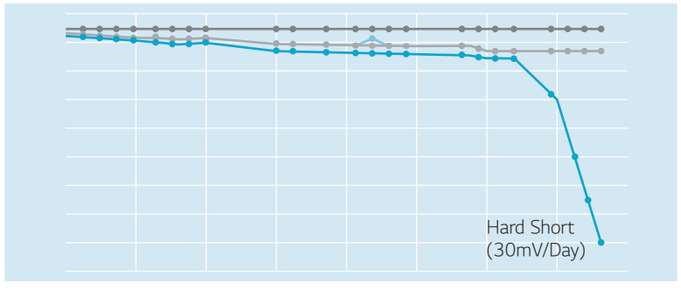
Detects a fine voltage that drops momentarily due to the cell tab failure.



RdV

Relaxation delta Voltage

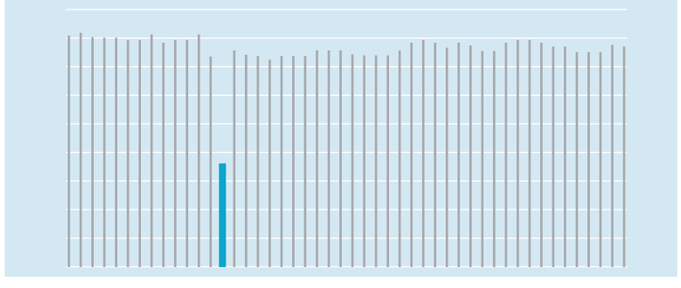
Detects continuous voltage drop due to the micro internal short circuit in cell.



dSOH

delta State Of Health

Detects capacity anomalies due to Lithium deposition or pouch damage.



Core Competencies of LG Energy Solution's Battery for Commercial Vehicles

With high performance and enhanced efficiency, LG Energy Solution's batteries are an ideal solution to a wide range of electric commercial vehicles, boosting productivity and increasing profit.

Most Competent Battery for Commercial Vehicles

Electrification of commercial vehicles has become a reality. LG Energy Solution's advanced battery technology opens the door to the next generation of electric commercial vehicles, making sustainable driving possible.

High Energy Density

With high energy density, LG Energy Solution's batteries improve driving efficiency and extend the distance that can be covered, all within a compact size.

Long Lifespan

LG Energy Solution's batteries are designed to provide long-lasting performance, enabling businesses to depend on their commercial vehicles to operate efficiently and effectively, while also reducing maintenance costs.

Quick Charging

LG Energy Solution's battery pack is designed to minimize the time needed for charging, resulting in significant cost savings for businesses.

Space Efficiency

With LG Energy Solution's lightweight battery pack, space efficiency and payload capacity are significantly improved, making it an ideal solution to optimize their transportation operations.

Various Commercial Vehicle Applications

LG Energy Solution provides best solutions for various commercial vehicles with our safe, reliable and innovative battery product lineups.

Bus

Our fast-charging batteries minimize charging time and reduce passenger transportation costs.

Light & Heavy-duty Truck

High-capacity battery for electric trucks is space-efficient, maximizing cargo space.

Vessel

We promote a sustainable marine ecosystem with longer driving duration from one-time charging.

Urban Air Mobility

Robust yet lightweight battery enhances reliability and energy efficiency in the UAM industry.

Utility Vehicle

Light and slim battery pack design improves design freedom for multi-purpose vehicles.

Off Highway Vehicle

We offer stable and long-lasting power for electric tractors or mining vehicles.

Partnerships with Global Commercial Vehicle Manufacturers

MAN, VOLVO, ISUZU TRUCKS, FREUDENBERG INNOVATING TOGETHER, IMPACT, FORSEE POWER, KGM COMMERCIAL, Club Car, Corvus Energy

Cell Solutions for Powerful EV Performance

LG Energy Solution's high-energy-density and high-power cell lineups maximize EV performance, while battery design freedom caters to a range of customer EV concepts.

Cells

Category			Power Cell		Energy Cell		
Model			P41	JP3	E101A	N2.2	E72B
Chemistry			NCM/ Graphite	NCM/ Graphite	NCM/ Graphite	NCM/ Graphite	NCMA/ Graphite+SiO
Performance	Capacity (Min, 25℃, 0.3C)	Ah	40.8	62.4 (Min, 25℃, 0.5C)	101.8	64.8	72.2
	Nominal Voltage	Vdc	3.63	4	3.67	3.634	3.67
	Energy	Wh	148	229.6 Wh (Min.)	374	235	264
	Energy Density (Min)	Wh/L	486	389 Wh/L (Min.)	637	556	625
		Wh/kg	226	184 Wh/kg (Min.)	287	266	287
	Pulse Charge Max Current(A)* (10sec, SoC 50%, 25℃, BOL)		380	192	395	146	316
	Pulse Discharge Max Current(A)* (10sec, SoC 50%, 25℃, BOL)		380	192	590	146	550
	Continuous Discharge Performance* (SoC 100%→0%)		5C, 12min, 25℃	-	-	-	3C, 10.1min, 25℃
	Max Discharge Power (W)	10sec, SoC 50%, 25℃	1241	706.5	1174	531	1540
	Internal Resistance (mΩ)	10sec, SoC 50%, 25℃	1.28	0.88 ± 0.25 mOhm	1.05~1.45 (10sec, SoC 28% (Shipping), 23℃)	1.2~1.9 (10sec, SoC 28% (Shipping), 23℃)	1.09
	Power to Energy Ratio	W(Power. 10sec, SoC 50%, 25℃) /Energy	8.3	-	3.1	2.3	5.8
	Quick Charge		8~80% @30~40min				
Warranty			80% Capacity retention @8years, passenger car condition				
Dimension		L*W*T(mm)	266.5*139 *8.22	353.5*101.7 *16.4	580*112.4 *9	301.5*100.7 *14.0	354*101.65 *11.44
Weight		g	654.5	1245	1303	885	906
Operating Temperature (℃)			-30 ~ 55				
Storage Temperature (℃)			-30 ~ 60				
Mass Production			Poland('21~)	China('18~)	China/ Poland('23~)	Korea/ USA('23~)	Poland('23~)

* As just reference data of cell level test, the detailed values can be modified upon system specification such as derating logic, cooling performance, etc. Concrete values can be specified based on customer's definition of its value.

Energy Cell					Low Voltage Cell	HEV Cell
E65D	E66C	E78	E79	E56A	LV 9.8	H5.5
NCM/ Graphite	NCM/ Graphite	NCM/ Graphite	NCMA/ Graphite	NCM/ Graphite	NCM/ Graphite + LTO	NCM/ Graphite
64.5	65.4	78	78	56	9.8	5.5
3.66	3.68	3.67	3.69	3.66	3.67	3.68
236	240	286	287	205	36	20.24
444	575	602	591	512.5	195.6	232.3
234	266	265	267	238.9	113.3	135.8
300	110	184	202	200	275	750w Pulse Charge Max Power(w)* (10sec, SoC50%, 25℃, BOL)
400	330	496	546	400	400	750w Pulse Discharge Max Power(w)* (10sec, SoC 50%, 25℃, BOL)
2C, 21min, 25℃	3C, 20min, 25℃	3C, 11.3min, 45℃	3C, 17.3min, 45℃ 3C, 12.4min, 25℃	-	-	-
1260	1068	1463	1365	1000	1000	-
1.2	1.42	1.48	1.27	1.57	1.7	-
5.3	4.45	5	4.7	4.9	27.8	-
8~80% @30~40min				-	-	-
80% Capacity retention @8years, passenger car condition						
290.5*159 *11.5	354*101.05 *11.66	548*100 *8.65	548*100.1 *8.55	354*101.05 *11.18	112.0*246.5 *6.66	180*105 *4.61
1017	900	1083	1075	863	317.5	149
-30 ~ 55						-30 ~ 60
-30 ~ 60						-40 ~ 70
Korea('21~)	Poland/ China('20~)	Poland('19~)	Poland('23~)	China('21~)	China('17~)	China('17~)/ Poland('24~)

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Module Solutions for Maximizing EV Space Efficiency

LG Energy Solution's module lineups with compact battery volume enable flexible height and width variations, resulting in diverse module combinations that support more innovative EV designs.

Modules

Category			Short Module		Long Module	
Model			E66C 3P4S	E72B 2P6S	E78 2P12S	E78 3P8S
Configuration			3P 4S	2P 6S	2P 12S	3P 8S
Chemistry			NCM / Graphite	NCM / Graphite+SiO	NCM / Graphite	
Performance	Capacity	Ah	196.2	144.4	156	234
	Nominal Voltage	Vdc	14.68	22.02	44.04	29.36
	Operating Voltage Range	Vdc	12 ~ 17	16.8 ~ 25.2	36 ~ 51	24 ~ 34
	Energy (Min)	kWh	2.88	3.17	6.87	6.87
	Energy Density(Min)	Wh/L	453	501	486	486
		Wh/kg	213	240	221	221
	Max Charge Power (kW)	10sec, SoC 50%, 25℃, BOL	5.1	13.8	16.3	16.3
	Max Discharge Power (kW)	10sec, SoC 50%, 25℃, BOL	12.8	20.8	34.7	34.7
Quick Charge			SOC 6% ~ 78%, 37min @35degC	SOC6% ~ 79.6%, 21min @25degC	SOC 8% ~ 80%, 40min @25degC	
Dimension		L*W*T(mm)	390*151.6*107.5	390.3*151*107.5	590*225*108 (589*222.6*107.5, Nominal)	
Weight		kg	13.5	13.2	31	
Operating Temperature (℃)			-30 ~ 60			
Storage Temperature (℃)			-30 ~ 60			
Warranty			80% Capacity retention @8years, passenger car condition			
Production Site			Poland/China ('20~)	Poland ('23~)	Poland ('21~)	

* As just reference data of Module level test, the detailed values can be modified upon system specification such as derating logic, cooling performance, etc. Concrete values can be specified.

Long Module		Low Height Module		Pack
E79 2P12S	E79 3P8S	E60 2P12S	E60 3P8S	E65D Pack
2P 12S	3P 8S	2P 12S	3P 8S	1P 16S
NCMA / Graphite		NCM / Graphite		NCM / Graphite
156	234	118.6	177.9	Min 64.5
44.28	29.52	44.04	29.36	58.6
36 ~ 50.4	24 ~ 33.6	30 ~ 51	20 ~ 34	40 ~ 67.2
6.91	6.91	5.22	5.22	3.78
479	479	460	460	54.7
223	223	226	226	75.6
18.1	18.1	19	19	-
40.1	40.1	25	25	-
SOC 8% ~ 80%, 30min @25degC		SOC 15% ~ 80%, 34min @35degC		-
589*225.76*108.58 (W/O Foam Rope, Nominal)		580*233*84		908.8*368.9*270.1
31		23		49 ±2
-30 ~ 60				-30 ~ 60
-30 ~ 60				-40 ~ 60
80% Capacity retention @8years, passenger car condition				8years
Poland ('23~)		Poland ('21~)		Korea ('24~)

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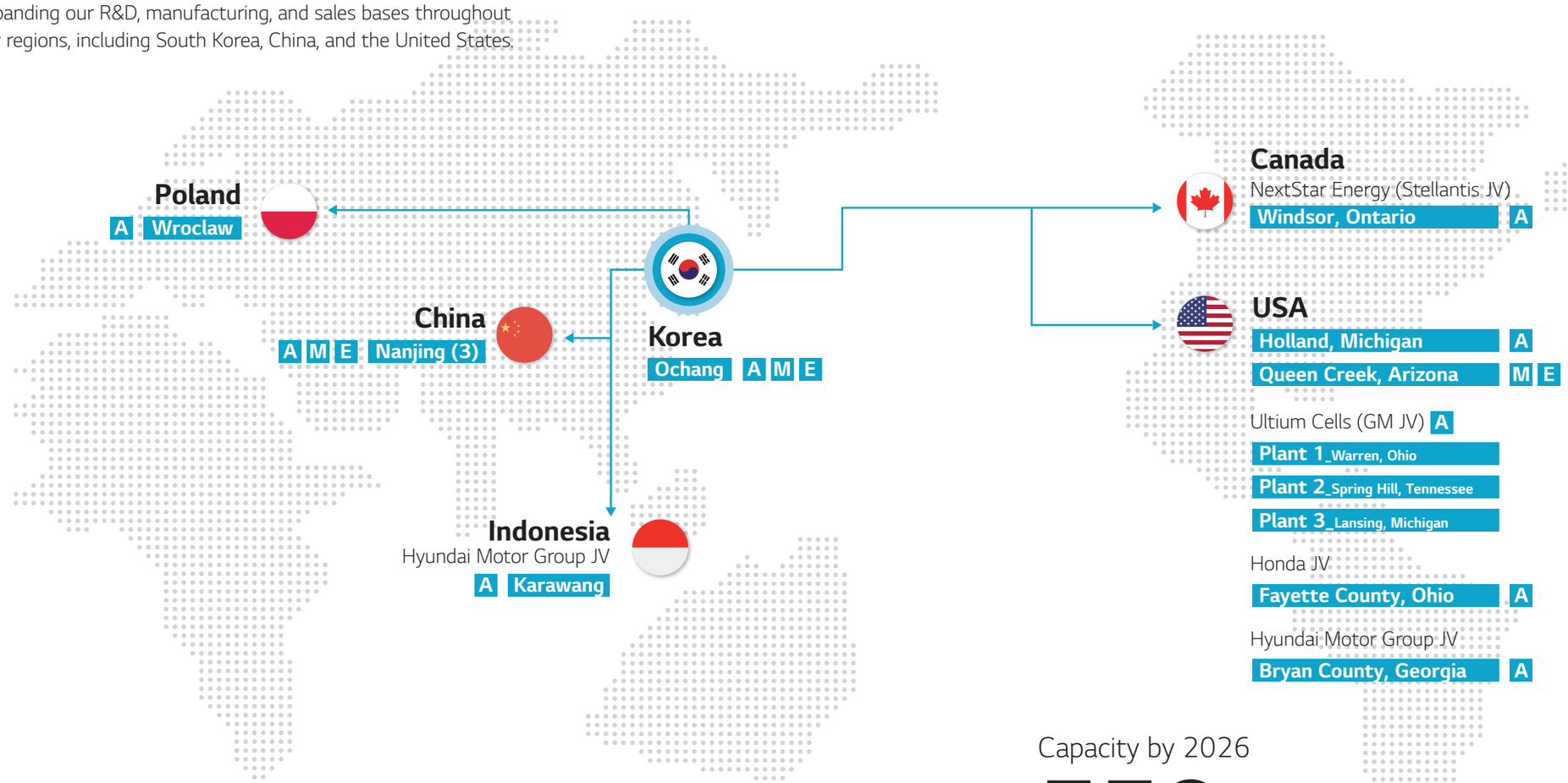
Unmatched Global Production Capacity

LG Energy Solution boasts the highest global production capacity with multiple facilities on major continents. This global system streamlines local production and quality control to secure a reliable battery supply.

Global Network

Expanding our R&D, manufacturing, and sales bases throughout key regions, including South Korea, China, and the United States.



Capacity by 2026

550 GWh+/Year

A Advanced Automotive M Mobility & IT E ESS

Global xEV Battery Plants

China
- Nanjing Plant
- Binjiang Plant

Poland
- Wroclaw Plant

Korea
- Ochang Plant

USA
- Holland Plant

STELLANTIS JV
- Ontario, CA

HYUNDAI JV
- Indonesia
- Georgia, US

GM JV
- Ohio, US
- Tennessee, US
- Michigan, US

Honda JV
- Ohio, US

Extensive Global Supply Chain Network

With worldwide raw material and component partners, LG Energy Solution maintains a stable supply chain for high-performance battery production.

Long-term Partnerships for Stable Raw Material Procurement

We ensure stable raw material procurement and cost innovation through long-term partnerships with global partners.

Year	Month	Entity	Details
2020	OCT	QPM	10-year supply agreement for 7,000 tons of nickel and 0.7 tons of cobalt
	DEC	Indonesia Government	MOU to secure local nickel deposits for the Indonesia's local JV
2021	JAN	SQM	8-year supply agreement for 55,000 tons of lithium
		Solus Advanced Materials	$380 million contract for Hungary copper foil factory
		Shenzhen Capchem Technology	15% acquisition of shares in Polish electrolyte JV with Capchem
	APR	QPM	20,000 tons of nickel secured for 6 years from 2023
	JUN	EcoPro	Partnership agreement for high steel recycling in battery manufacturing plants
		QPM	7,000 tons of nickel and 700 tons of cobalt secured annually for 10 years from 2025
2022	JAN	Liontowm	700,00 tons of lithium ore (Spodumene) secured annually for 5 years from 2024
		Vulcan energy	45,000 tons of lithium hydroxide secured annually for 5 years from 2026
	JUN	Compass Minerals	40% supply of carbonate and lithium hydroxide produced by Compass Minerals for 7 years from 2025
	OCT	Syrah	Start of supply of 2,000 tons of natural graphite from 2025, with continuous cooperation for expanding mass production
2023	MAY	Green Technology Metals	25% supply of lithium ore produced for 5 years from 2026
	JUL	SQM	100,000 tons of carbonate and lithium hydroxide secured annually for 7 years from 2023

Expertise in World-class Technology

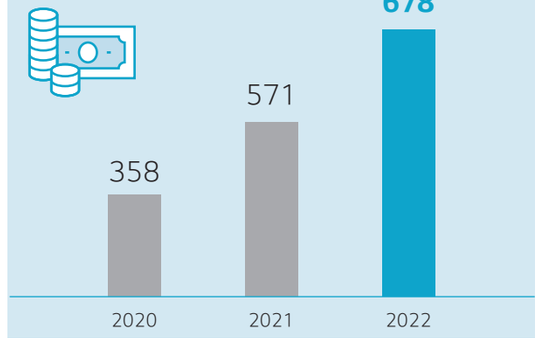
LG Energy Solution leads the battery sector with the world's largest number of patents, and our commitment to widening this lead continues through continuous investment in R&D and specialized manpower training.

Empowering the Future through Research & Development

We provide our customers with both safety and assurance for future business while simultaneously ensuring the freedom for technological expansion through our commitment to R&D investments.

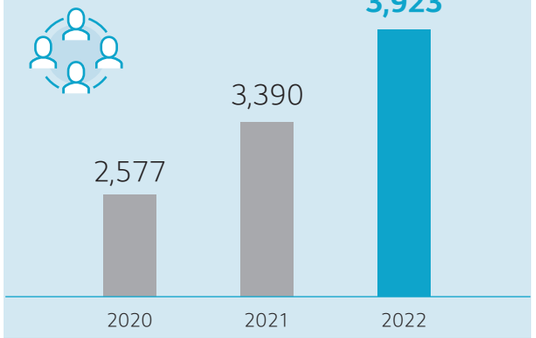
Investment

(Unit: M$)

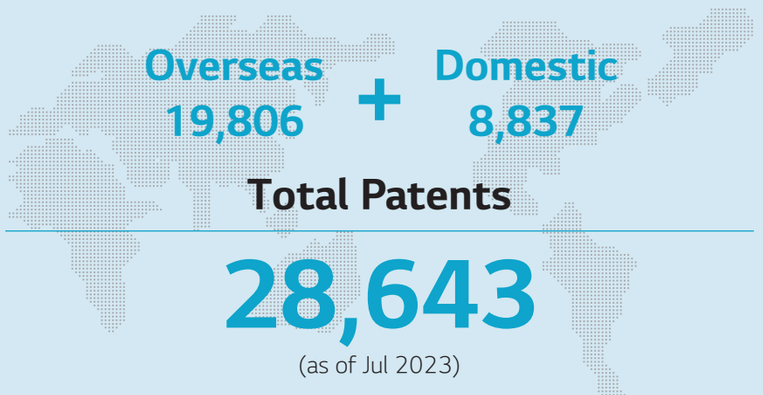


Human Resources

(Unit: people)



Intellectual Property Rights



Next Generation Technological Roadmap

LG Energy Solution is paving the way for the future of batteries with continuous process innovations and technological advancements in battery materials and cell technology. We are moving the industry closer to the next generation of high-performance, low-cost batteries that are safer and more efficient.

Future Technology Development Path

LG Energy Solution take the lead in developing future technology in all areas of the battery industry.

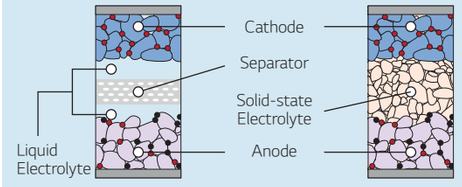
Material & Cell	**Basic Materials and Cell Technologies Innovation for Improved Performance**	• High-capacity NCMA • High-efficiency silicon • Low expansion graphite
Module & Pack	**Integrated Design Cell + Module + Pack + System**	• Cooling and cell fixing structure • Fire extinguishing/Heat barrier design • Integrated structure development based on vehicle platform
Simulation	**Thermal, Electrical, and Mechanical Optimal Feedback**	• Battery system performance forecast • Stability prediction • Process mechanism analysis and interpretation
Digital Transformation	**New Business Models in Battery Certification and Reused Battery Analysis**	• Battery/Material analysis based on AI and big data • Battery life prediction • Safety diagnostic technology

Next-generation Batteries

LG Energy Solution is developing a revolutionary next-generation battery portfolio employing state-of-the-art technology.

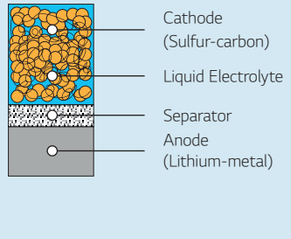
Solid -state Battery

Solid-state batteries are rechargeable batteries with a solid-state electrolyte between a cathode and an anode, enabling high energy density and high capacity with a low risk of combustion.



Lithium -sulfur Battery

Lithium-sulfur batteries are made from lightweight materials, such as sulfur-carbon composite in the cathode and lithium-metal in the anode, giving them an energy density 2 times higher than conventional lithium-ion batteries.



Next-generation Battery Portfolio

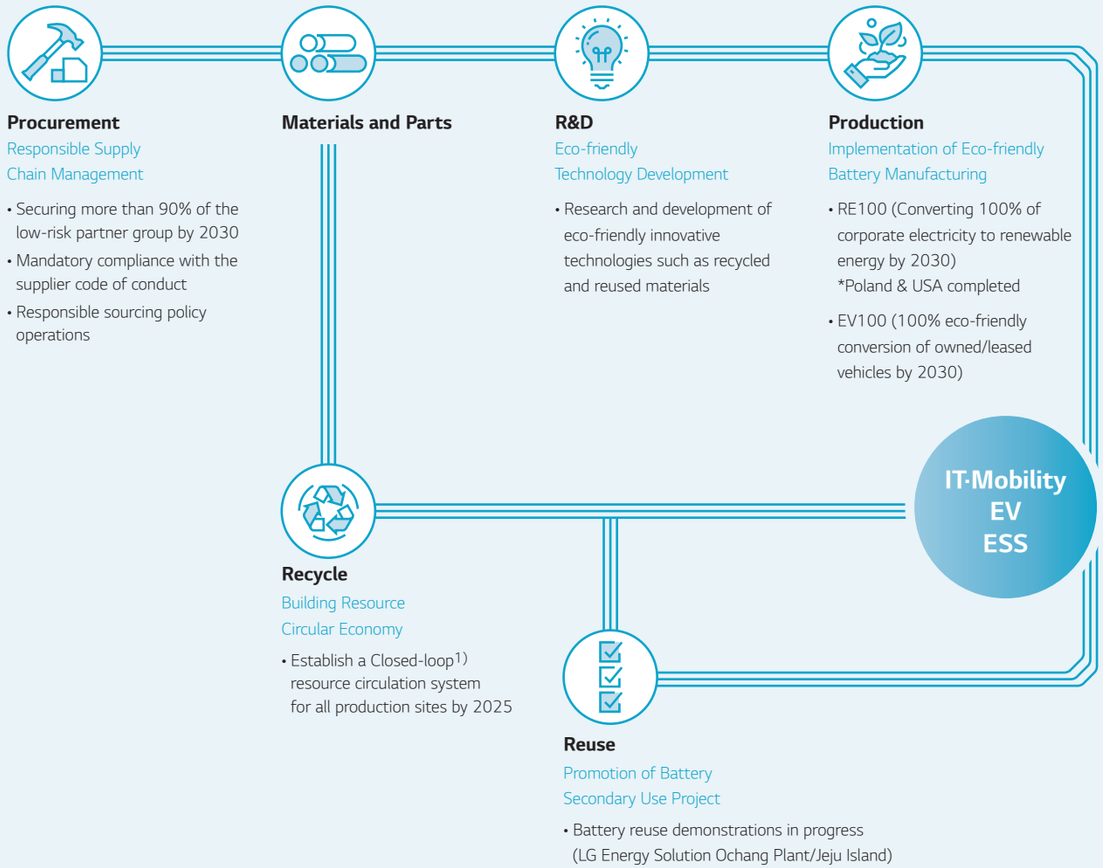
		2026 →	2027 →	2028 →	2030 →
Energy Density		680Wh/L (300Wh/kg)	550Wh/L (500Wh/kg)	820Wh/L (350Wh/kg)	900Wh/L (400Wh/kg)
Next-generation Battery		Polymer-based Semi-solid-state battery	Lithium-sulfur battery	Polymer-based solid-state battery	Sulfide-based solid-state battery
Material	Cathode	High Ni	S/CNT Composite Material	High Ni	High Ni
	Anode	Graphite / SiO	Li metal	Li metal	Si
	Electrolyte	Solid Electrolyte		Solid Electrolyte	Sulfide SSE

Commitment to Sustainability

LG Energy Solution is fulfilling its corporate social responsibility by taking a lead in climate action by practicing sustainable business innovation in partnership with customers throughout the industry value chain.

Battery Circular Ecosystem of LG Energy Solution is Offering

From raw material procurement to recycling, we protect the environment and innovate businesses with a sustainable battery circular ecosystem.



Notes : 1) Closed-loop : Raw materials such as lithium, nickel, and cobalt are extracted from waste batteries or scraps generated during the production process and recycled in the cathode material production stage

Climate Action for the Future

LG Energy Solution has simultaneously committed to RE100 and EV100 and is actively participating in an international campaign to convert all electricity used on business sites to 100% renewable energy, and all company vehicles to 100% eco-friendly models by 2030.

RE 100

LG Energy Solution will convert 100% of the electricity to renewable energy by 2025 for our global production plants, and the non-manufacturing business sites such as R&D centers are preparing to have 100% conversion by 2030.

Global Business Site RE100 Progress

Poland Plant
2019

U.S. Plant
2020

China Plant
2025

South Korea Plant
2025

EV 100

LG Energy Solution aims to make EV100 a reality which requires that 100% of all company-owned automobiles be converted to eco-friendly vehicles by 2030.

50%
Target by 2026

Continuous expansion of
EV Charging Stations
on business sites

• RE100 is an international campaign with the goal of providing 100% of electricity consumed by companies and users with renewable energy such as wind/solar power by 2050.
• EV100 is an international campaign with the goal of converting corporate-owned/operated vehicles to 100% electric by 2030 to reduce CO2 in the transport sector.