









product

Energy Solutions

Automotive Battery



Automotive Battery

World's No. 1 automotive battery supplier

The rechargeable battery for automobile is a mid- to large-sized lithium ion battery used to provide power to an electric vehicle. Lithium ions move between the (+)/(-) electrodes to produce electricity. Based on its cutting-edge technologies, LG Chem has lead the global market by supplying batteries for electric vehicles to the global automobile manufacturers.

For Hybrid

Vehicle(HEV)

Product

Differentiation

Batteries for electric vehicles demand high stability, high output and high energy density, and, in this regard, LG Chem's products are fully recognized for their performance and quality.

Micro HEV

Energy Source Electricity, fossil fuel

Driving Characteristics Improves fuel efficiency by providing

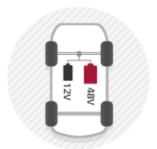
supplementary power to the engine.

Battery Characteristics The motor supplements the engine when

the engine is running. It is possible to stop or start the engine while driving. The battery supplies electricity to

electric components.

Operation



Pure HEV

Energy Source Electricity, fossil fuel

Driving Characteristics Improves fuel efficiency through

optimized driving where the power is generated by either the engine or the motor according to the driving

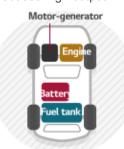
conditions.

Battery Characteristics The main role of the rechargeable battery

is to supplement the engine, so it

produces high output.

Operation



Models equipped with LG Chem's battery



Hyundai Sonata

A significant improvement in fuel efficiency through output increase.

Excellent instantaneous output/charging performance. Long lifespan despite the frequent charging/discharging thanks to the little distortion/degeneration of electrodes.

Energy Source

Electricity, fossil fuel (when discharged)

Driving Characteristics

Having the characteristics of both a hybrid vehicle and an electric vehicle, the PHEV uses only electricity for

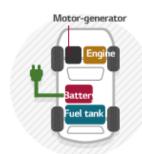
short-distance travels and the engine for long-distance travels.

Battery Characteristics

It has high energy density and produces high output.

Operation

For Plug-in Hybrid Vehicle(PHEV)



Models equipped with LG Chem's battery



GM Volt

Realized high energy density for the same volume. Outstanding driving performance in the EV mode due to the high output.

Energy Source

Electricity

Driving Characteristics

Driven only with the electricity. Zero pollution.

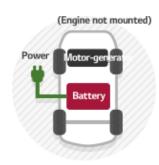
Battery Characteristics

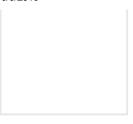
It is important to secure enough driving distance. Therefore, high energy density is the most important feature

of the battery.

Operation

For Electric Vehicle(EV)





Models equipped with LG Chem's battery



Renault ZOE

Secured high capacity per unit weight thanks to the light battery, increasing the travel distance. Uniform temperature ensures sufficient cooling with a small amount of energy, extending the lifespan of the battery.

Electric Vehicle Battery Solution

LG Chem has a product portfolio encompassing all products related to car batteries from cells to modules, BMS, packs and technical support.

Cell

Excellent stability based on the proprietary separator technology Lightweight pouch that generates little heat Secured competitiveness in the materials through raw material development and independent production

Pack

Efficient cooling system and the highest stability

Technical Support

Comprehensive consulting services based on the expertise accumulated through product development

^{*} In addition to the examples listed above, LG Chem can provide automotive batteries in the form of cell, module or pack depending on the vehicle.

Module

BMS

Easy to change the designs according to customers' requirements A variety of cooling systems can be applied

Accurate battery management through LG's proprietary algorithm Smooth communication between the automobile and battery software (AUTOSAR: automotive open system architecture)

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