

## GLOSSARY OF TECHNICAL TERMS

*In this document, unless the context otherwise requires, explanations and definitions of certain terms used in this document in connection with our Group and our business shall have the meanings set out below. The terms and their meanings may not correspond to standard industry meanings or usage of these terms.*

"Ah"	Amp-hour, battery capacity unit
"ASES"	Alliance Supplier Evaluation Standard used by Renault and Nissan for supplier auditing
"Battery grade lithium carbonate"	Lithium carbonate whose quality reaches the YS/T582-2006 standard, is mainly used in the production of lithium-ion battery materials
"BEV"	Battery Electric Vehicle
"BMS"	Battery Management System
"C"	The nominal capacity of the battery. A charging current of 2C implies that the battery can be fully charged in half an hour
"Carbon silicon anode"	A new type of anode material with carbon as the matrix and silicon as the active material
"Cell"	battery cell
"CNAS"	China National Accreditation Service for Conformity Assessment
"ERP System"	Enterprise Resource Planning System
"ESS"	A device that can store and output power, consists of multiple subsystems such as battery system and energy management system
"EV battery system"	Usually known as the EV battery pack, which is used in electric vehicles and consists of cells, modules, battery management systems and others
"GB 38031"	PRC National Standard: <Electric vehicles traction battery safety requirements>

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“GB 38032”	PRC National Standard: <Electric buses safety requirements>
“GB/T 27922: 2011”	PRC National Standard: <Evaluation system for after-sales service of commodity>
“GB/T 31484”	PRC National Standard: <Cycle life requirements and test methods for traction battery of electric vehicle>
“GB/T 31467”	PRC National Standard: <Lithium-ion traction battery pack and system for electric vehicles>
“GB/T 31486”	PRC National Standard: <Electrical performance requirements and test methods for traction battery of electric vehicle>
“GWh”	The unit of electricity, KWh is the degree, 1GWh=1,000,000KWh
“HEV”	Hybrid Electric Vehicle
“Installed capacity”	The volume of battery products installed in NEVs or ESSs, usually expressed in electricity unit of GWh or KWh
“High nickel cathode material”	A ternary cathode material with a high nickel content
“High voltage ternary”	A ternary lithium battery cathode material with high voltage characteristics
“IATF16949”	International technical specification of automotive industry quality management system, which prepared by International Automotive Task Force (IATF) and ISO (International Organization for Standardization)
“Industrial grade lithium carbonate”	Lithium carbonate whose quality reaches the GB11075-2003 standard, with relatively low quality. It is widely used in fields of electrolytic aluminum, textile, refrigerant and others, and also used in the production of lithium chloride, lithium hydroxide and other lithium products

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“Iron phosphate”	Iron phosphate, also known as high iron phosphate and iron orthophosphate, with molecular formula $\text{FePO}_4$ , is a white, off-white monoclinic crystal powder, and is a compound used to synthesize lithium iron phosphate battery cathode materials
“ISO9001”	International Quality Management System, which released by ISO (International Organization for Standardization)
“ISO/IEC17025”	Laboratory Management System, which released by ISO (International Organization for Standardization)
“LFP battery”	A lithium-ion battery that uses lithium iron phosphate ( $\text{LiFePO}_4$ ) as the cathode material
“Lithium”	A metal chemical element, of which the element symbol is Li, and the atomic number is 3
“Lithium carbonate”	A common lithium compound with the chemical formula $\text{Li}_2\text{CO}_3$ . It is the most widely used lithium product with broad application range. It is classified into industrial grade lithium carbonate, battery grade lithium carbonate and high-purity lithium carbonate due to its different purity levels
“Lithium chloride”	A common lithium compound whose chemical formula is LiCl. It is mainly used in the production of metal lithium, polymer materials, molecular sieves, medicine, food and other industries. Anhydrous lithium chloride refers to lithium chloride without crystal water. Most of the lithium chloride currently used in the market is anhydrous lithium chloride
“Lithium cobalt oxide”	A cathode material for lithium cobalt oxide batteries with the chemical formula $\text{LiCoO}_2$

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“Lithium hydroxide”	A common lithium compound whose molecular formula is LiOH. When it comes to lithium hydroxide, it generally refers to lithium hydroxide monohydrate in the industry, which is mainly used in lubricants, purifiers, catalysts and other industries. Lithium hydroxide monohydrate is a common lithium compound whose molecular formula is LiOH.H <sub>2</sub> O. It is the main lithium hydroxide product in the lithium product market, widely known as lithium hydroxide for short in the industry
“Lithium manganese oxide”	A cathode material for lithium manganese oxide batteries with the chemical formula LiMn <sub>2</sub> O <sub>4</sub>
“Lithium metal”	Elemental lithium metal, mainly used in lithium alloys, nuclear industry, batteries, aerospace industry manufacturing and other industries. Spodumene refers to an ore containing lithium with LiAl[Si <sub>2</sub> O <sub>6</sub> ] as its chemical formula. It is mainly used in the production of lithium carbonate and the production of additives in the glass and ceramic industries
“Lithium nickel oxide”	A cathode material for lithium nickel oxide batteries with the chemical formula LiNiO <sub>2</sub>
“Module”	Battery module
“MWh”	The unit of electricity, KWh is the degree, 1MWh=1,000KWh
“NCM”	Nickel-cobalt-manganese ternary materials, which can be used as cathode materials for ternary batteries. Given different ratios of nickel, cobalt, and manganese, it can be classified into NCM523, NCM622, NCM811, etc.
“Pack”	Battery pack
“PHEV”	Plug-in Hybrid Electric Vehicle
“QC/T”	PRC Automotive Industry Standard
“QIP”	Quality Improvement Plan

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“Solid electrolyte”	A new type of electrolyte in which the electrolyte changes from liquid to solid. According to the content of the electrolyte, it is divided into semi-solid electrolyte, all-solid electrolyte, etc.
“SS”	Start-stop system for micro-hybrid passenger vehicles
“T/CASE”	China Automotive Engineering Association Standard
“Ternary lithium battery”	Lithium-ion battery whose cathode material composes of three elements in two forms: nickel-cobalt-manganese, or nickel-cobalt-aluminum
“V”	Basic unit of voltage
“VDA”	German Association of the Automotive Industry
“Wh/kg”	Watt hour/kg
“°C”	Degree Celsius, the unit of temperature measurement on the Celsius scale