
GLOSSARY OF TECHNICAL TERMS

This glossary of technical terms contains explanations of certain technical terms used in this document. As such, these terms and their meanings may not correspond to standard industry meanings or usage of these terms and may not be comparable to similar terms adopted by other companies.

“Ah”	Amp-hour, battery capacity unit
“BMS”	Battery Management System
“BOM”	Bill of materials
“charge/discharge efficiency”	the ratio of the energy output during discharge to the energy input during charge, typically expressed as a percentage to indicate how effectively a battery can store and release energy
“Chinese Academy of Engineering and Chinese Academy of Sciences”	a national and independent organization that aims to advance engineering sciences and technology in China
“CPT”	Carriage Paid To, one of the Incoterms which means the seller pays for transporting goods to a named destination but transfers risk to the buyer once handed to the carrier
“C-rate”	a measure of the rate at which a battery is charged or discharged relative to its maximum capacity
“cycle life” or “life cycle”	the number of times (or cycles) that the a battery can undergo the process of complete charging and discharging until the end of its life, and the end life of a battery generally indicates that the available capacity of the battery has decay to 80% of its designed capacity
“DAP”	Delivered At Place, one of the Incoterms which means the seller delivers goods to a specified destination, bearing all costs and risks until arrival, but the buyer handles unloading and import duties.
“data center”	a specialized facility designed to house an organization’s IT operations and equipment, such as servers, storage systems, networking devices, and other computing resources

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“design life”	the series of stages that a product or system goes through from its initial concept to its final phase of retirement or disposal
“discharge rate”	the speed at which a battery releases its stored energy. It is typically expressed in terms of current (amperes, A) or as a C-rate
“economies of scale”	the cost advantages that enterprises obtain due to their scale of operation
“EMEA”	Europe, Middle East, and Africa
“EMS”	Energy Management System
“energy density”	the amount of energy that can be contained within a given volume or given mass
“energy storage battery”, or “ESS”	a device that can store and output power, consists of multiple subsystems such as battery system and energy management system
“ERP system”	Enterprise Resource Planning System
“EV” or “electric vehicle”	a vehicle that can be powered by an electric motor that draws electricity from a battery and is capable of being charged from an external source
“FCA”	Free Carrier, one of the Incoterms which means the seller delivering the goods to a named place, which can be a carrier’s premises or another location
“float charge life”	expected duration of time that a battery can operate by maintaining a battery’s full charge by applying a continuous, low-level charging voltage that compensates for the battery’s self-discharge
“FOB”	Free On Board, one of the Incoterms which means that the seller is responsible for delivering the goods to a designated port and loading them onto the vessel chosen by the buyer
“GB/T 36276”	PRC National Standard: <Lithium ion battery for electrical energy storage>

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“GB/T 45001”	PRC National Standard: <Occupational Health and Safety Management Systems – Requirements with Guidance for Use>
“GWh”	unit of electricity, kWh is the degree, 1GWh=1,000,000kWh
“International Electrotechnical Commission” or “IEC”	a global organization that prepares and publishes international standards for all electrical, electronic, and related technologies
“IEC 60896”	requirements for stationary lead-acid batteries, which were released by International Electrotechnical Commission (IEC)
“IEC 62619”	<Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for secondary lithium cells and batteries for use in industrial applications>, which was released by International Electrotechnical Commission (IEC)
“IEC 62620”	<Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary lithium cells and batteries for use in industrial applications>, which was released by International Electrotechnical Commission (IEC)
“installed capacity” or “installation”	the volume of battery products installed in EVs or ESSs, usually expressed in electricity unit of GWh or kWh
“ISO 10012”	Measurement Management System, which was released by ISO (International Organization for Standardization)
“ISO 14001”	Environmental Management System, which was released by ISO
“ISO 45001”	Occupational Health and Safety Management System, which was released by ISO
“ISO 50001”	Energy Management System, which was released by ISO
“IP65”	a rating given to electrical enclosures and devices to signify their level of protection against solids and liquids. The rating is defined by the IEC under the IEC 60529 standard

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“lead-acid battery”	rechargeable battery that relies on a combination of lead and sulfuric acid for its operation
“lithium carbonate”	a common lithium compound with the chemical formula Li_2CO_3 , which has a broad application range
“lithium-ion battery”	rechargeable battery that composes of cells in which lithium ions move from the negative electrode through electrolytes to the positive electrode during discharge and back when charging
“lithium-iron phosphate (LFP)”	cathode material of lithium iron phosphate batteries with formula of LiFePO_4 , synthesized mainly by lithium carbonate and iron phosphate
“mass energy density”	the amount of energy that can be contained within a given mass
“NMP”	N-methylpyrrolidone, which is a chemical that is widely used during the manufacture and production of petrochemicals, electronics and plastic material and resin manufacturing
“OA system”	office automation system
“off-peak”	periods of time when the demand for electricity or other services is lower than the usual levels
“operating temperature range”	operating temperature range of a device or system refers to the range of ambient temperatures within which it can function effectively and reliably
“peak”	the period of highest demand or maximum load in a given time frame
“per-unit cost(s)”	per-units cost of batteries is calculated by the sum of raw material costs, manufacturing and labor costs, and other costs in the manufacturing process divided by production volume
“solar PV”	the technology that converts sunlight directly into electricity using solar cells

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“Relevant Jurisdiction(s)”	means any jurisdiction that is relevant to the Company and has sanctions related law or regulation restricting, among other things, its nationals and/or entities which are incorporated or located in that jurisdiction from directly or indirectly making assets or services available to or otherwise dealing in assets of certain countries, governments, persons or entities targeted by such law or regulation. The Relevant Jurisdictions include United States (“U.S.”), United Nations (“UN”), European Union (“EU”), the United Kingdom (“UK”), the UK Overseas Territories and Australia
“Relevant Region(s)”	Afghanistan, Balkans, Belarus, Democratic Republic of the Congo, Egypt, Hong Kong, Iraq, Lebanon, Libya, Mali, Myanmar, Russia (excluding the Crimea, Kherson, Zaporizhzhia, and LPR/DPR regions), Somalia, Tunisia, Turkey, Ukraine (excluding the Crimea, Kherson, Zaporizhzhia, and LPR/DPR regions) and Zimbabwe
“Sanctioned Person(s)”	certain person(s) and identity(ies) listed on OFAC’s Specially Designated Nationals and Blocked Persons List or other restricted parties lists maintained by the U.S., EU, UK, UN or Australia
“sq.m.”	square meters
“Sodium-ion batteries”	a rechargeable battery, which use sodium ions (Na ⁺) as their charge carriers
“telecom base station”	a fixed point of communication for cellular networks that connects mobile devices to the core network
“UL”	UL Solutions Inc., a global leader in applied safety science who helps businesses demonstrate compliance with safety regulations and standards, fosters innovation, and enhances brand trust through rigorous testing and certification processes
“UN38.3”	the prevailing United Nations standard that lithium batteries must meet to receive certification for safe transport, which refers to Section 38.3 of Part 3 of the “United Nations Manual of Tests and Standards for the Transport of Dangerous Goods”

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“utilization rate”	utilization rate is calculated as dividing production volume by the production capacity for the same year
“V”	basic unit of voltage
“voltage range”	voltage range of a device or system refers to the span of voltages within which it can operate safely and effectively
“Wh/kg”	Watt hour/kilogram