Lithium cell sizes

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Lithium-ion cells are made in various sizes, often assembled intobatterypacks for portable equipment.Many types are also available with an internal protection circuit to prevent over-discharge and short-circuit damage. This can increase their physical length; for example, an 18650 is around 65mmlong, but may be around 68mmlong with an internal protection circuit. Safe and economic recharging requires ahigh qualitycharger specified for these cells. Popular applications include laptop battery packs,electronic cigarettes,flashlights,electric vehicles, and cordless power tools.

There is also a kind of special lithium ion battery on the market. That is the 1.5V rechargeable AA and AAA Li-ion batteries. It is a 3.6/3.7V lithium battery be stepped down to a 1.5V constant voltage output through a built-in circuit module. It can replace the normal disposable AA/AAA alkaline batteries, more environmentally friendly.

For vapers, the XTAR 21700 5000mAh can be your best choice. Its high drain will bring you a great vapelife. For LED flashlights or other power devices, the XTAR 18650s with different capacity are your consideration. If you want a huge capacity, then take the XTAR 26650 battery. It is great for tactical operations, search and rescue, illumination, camping and outdoor excursions produce significant outputs in a compact body.

XTAR, established in 2006, is a leading provider of high-quality lithium-ion batteries, smart chargers, and LED flashlights. Based in Shenzhen, we integrate R&D, production, and sales to deliver innovative power solutions. With over 18 years of expertise, XTAR is your trusted partner for reliable energy products, offering customized solutions for OEM and wholesale clients.

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Cylindricals: Cylindrical cells have their electrodes rolled up like a jelly roll and placed inside a cylindrical case. These cells are relatively small, and dimensionally stable during operation.

When designing application-specific battery packs, considering cell size in conjunction with factors such as energy density, power output, thermal management, safety, & cost, can help you make an informed choicethat

aligns with your battery program"s goals & requirements.

Prismatic Cells: Prismatic cells feature a hard case, usually made of aluminum. The prismatic cell"s shape makes volume utilization high when a pack is made of these cells. Most modern prismatic cells are tenth to hundreds of Ah capacity mostly found in automotive and stationary storage applications. Large cell size and effective cell-to-pack packaging simplify pack design and manufacturing, driving costs down, but cooling and safety must be effectively managed to ensure safe and reliable battery operation.

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