Sales 2020-12-09

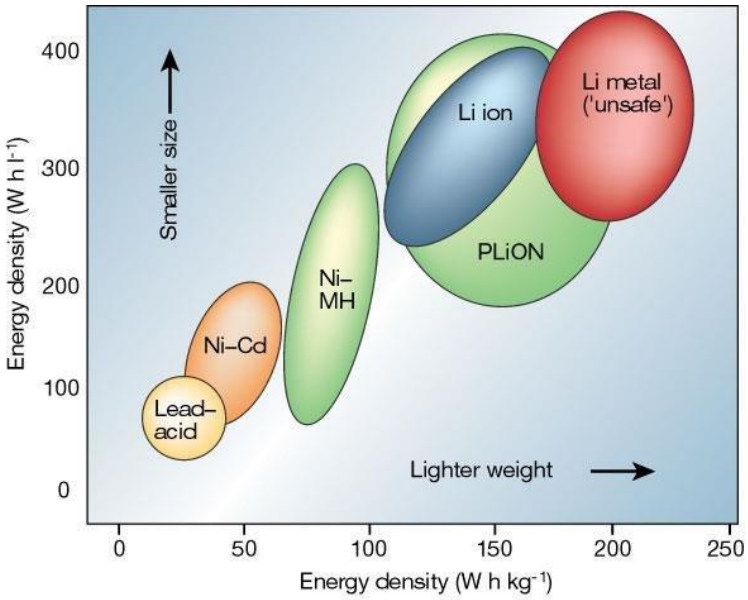
Introduction of Efore Lithium-ion battery

Efore has launched an indoor 19-inch 4U 100 Ah and an outdoor rail-mounted 50 Ah lithium-ion batteries with the following technical features:

- Lithium Iron Phosphate (LiFePO4) technology
- Easy to install and scale up (supporting parallel connection)
- High energy density
- Long cycle life performance (>2000 cycles @100% DOD)
- Safety features on charge and discharge control
- Modular fan-free design
- Remote real-time monitoring of battery data
- Maintenance free
- LED status and alarm indication

Today, the lithium-ion battery has become the most common type of battery for portable electronics and is also largely used in electric vehicles and energy storage applications. Compared to other batteries such as lead-acid, li-ion battery has much higher energy and power densities. It means that with the same amount of energy stored, li-ion battery is much smaller in volume and lighter in weight and delivers higher power. In addition, li-ion batteries also outperform lead-acid batteries with a much longer cycle life. This leads to the cost per cycle becoming lower in the long run and also lower total cost of ownership.

Therefore, li-ion battery energy solutions have also got growing attention in telecom applications. Compared to lead-acid batteries which are most commonly used in telecom applications today, li-ion batteries deliver the same amount of energy with about a third in weight and a half in size (including electronics and casing). Lithium Iron Phosphate (LFP) is one of the li-ion technologies that offers high energy density, long cycle life and thermal stability performance.



Energy density comparison for different batteries. (Source: Metal Hydrides for NiMH Battery, Applications, Material Matters Volume 6 Article 2)

Efore LFP batteries have optimized design in performance, energy and power density, safety, life span and cost. The products are certified in accordance with IEC 62619 and IEC 62368, and tested according to UN38.3 standard. Efore's LFP batteries are easy to install (plug-and-play) and comply with existing rectifiers in telecom power systems because of the unique charge current limit function, and extensive monitoring and controlling functions.

With growing concerns of climate change, to combat global energy and environmental issues, and reduce greenhouse gas emission and toxic pollutants, Efore is continuously working on product development and customer services, and offers li-ion battery products ranging from indoor cabinet modules to outdoor rail-mounted enclosures, to support various telecom site solutions.