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Technical requirements for lithium-ion battery drift in communication base stations

Overview

What are the uses of lithium ion batteries?

The uses of Lithium-ion (Li-ion) Batteries have been increasing in our daily life day by day. Lithium-ion batteries are energetic, rapid rechargeable and having longer life. Lithium ion battery is also a better choice for various Telecom Applications as well as other applications. The demand of these batteries has been increasing rapidly.

What is a lithium ion battery?

The battery has electrolyte which is a lithium compuound in an organic solvent. Li-ion battery is also equipped with safety measures and protective electronic circuits or fuses to prevent reverse polarity, over voltage and over heating. Li-ion battery also has a pressure release valve and a safety vent to prevent it from bursting.

How to charge a lithium battery?

Constant current/constant voltage method is used for charging the lithium batteries. constant current should be maintained to discharge the batteries. Do not solder any wire directly onto the battery. 6.3 Verify the polarity of the batteries before charging to ensure that they are never charged with the polarity reversed.

How does a lithium ion battery work?

Li-ion battery also has a pressure release valve and a safety vent to prevent it from bursting. 4.2 The lithium atom of cathode is ionized during charging and moves from layer to layer in the negative electrode.

What happens if a lithium ion battery pack fails?

There is a small chance that, if a lithium-ion battery pack fails, it will burst into flame. Just two or three battery packs per million may have a problem. A kind of short circuit happens inside the lithium-ion battery due to separator failure.

Since lithium-ion batteries can handle large currents, they may get very hot.

What happens if a lithium ion battery is fully discharged?

Heat causes lithium-ion battery packs to degrade much faster than the normal, resulting in poor performance. 8.6 Lithium-ion chemistry prefers partial discharge to deep discharge. On completely discharging a lithium-ion battery, may damage it irreparably. So it is best to avoid discharging the battery completely.

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