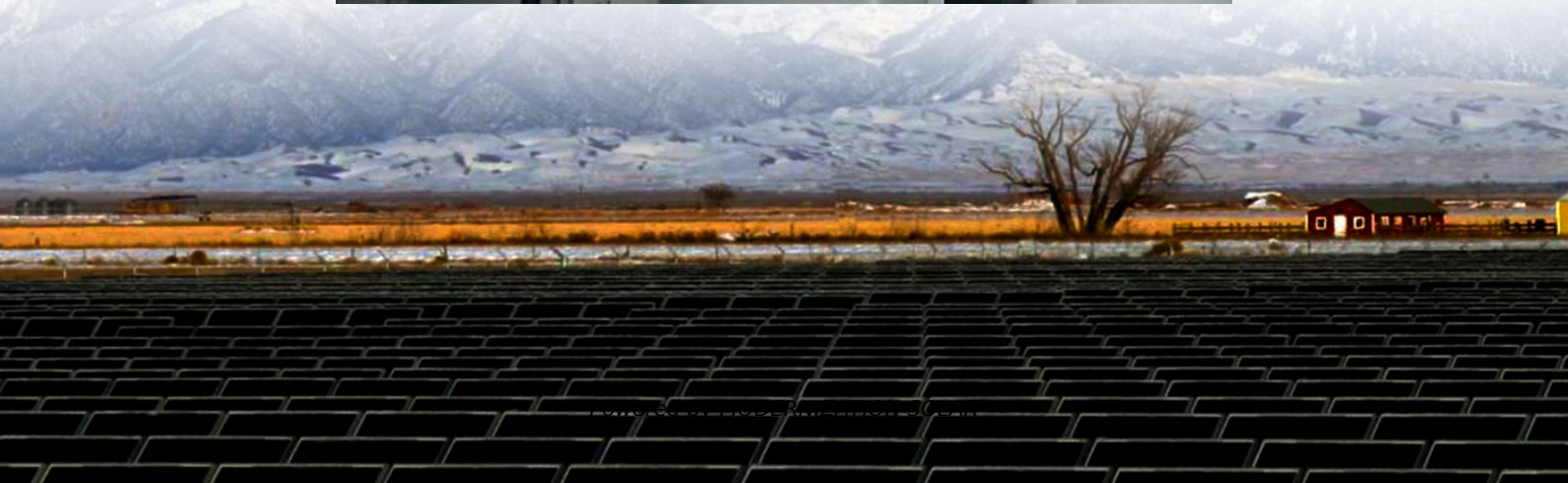


# **Is lithium better or phosphoric acid safer for Seoul solar container outdoor power**





## Overview

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What is the difference between lithium phosphate and SLA?

For the purpose of this blog, lithium refers to Lithium Iron Phosphate (LiFePO<sub>4</sub>) batteries only, and SLA refers to lead acid/sealed lead acid batteries. The most notable difference between lithium iron phosphate and lead acid is the fact that the lithium battery capacity is independent of the discharge rate.

Are LiFePO<sub>4</sub> batteries better than lithium ion batteries?

While LiFePO<sub>4</sub> batteries have a lower energy density of 90 to 160 Wh/kg compared to lithium-ion batteries, they offer better stability and safety. A LiFePO<sub>4</sub> power station with the same capacity as a Li-ion power station will be significantly heavier and larger.

What type of battery does a solar power station use?

Most solar power stations use lithium-ion batteries. These batteries can be one of three types: lithium cobalt oxide (LCO), Lithium Nickel Manganese Cobalt Oxide (NMC), or lithium iron phosphate (LiFePO<sub>4</sub>).

Are lithium-ion batteries a safety hazard?

The high energy density of traditional lithium-ion batteries makes them a bigger safety hazard compared to lithium iron batteries. While hazardous incidents are rare, thermal runaway can occur if the power station is exposed to temperatures over 140F.



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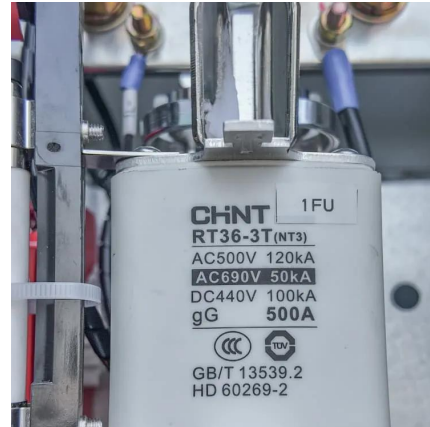


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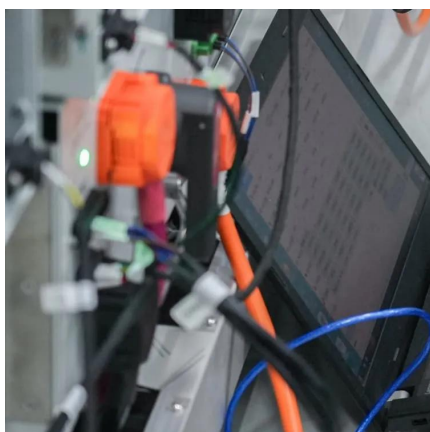
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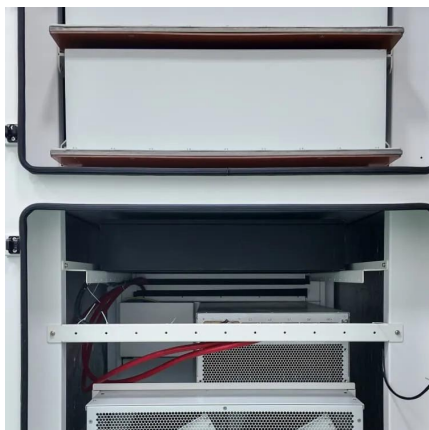


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