

## Kongres Container

# Explosion-proof household lithium battery pack



## Overview

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Are lithium batteries prone to thermal runaway?

Despite the rapid progress in material development and technology for higher-energy-density and safer lithium batteries, current lithium battery technology is still exposed to the risk of thermal runaway, although the probability is relatively low.

Can lithium battery pack be used in underground coal mining?

In coal mining industry, specifically in underground coal mining, the requirements on lithium battery pack applications are very stringent with various engineering constraints imposed on them, which, in most cases, make the application of lithium technology in such an environment unfeasible or impractical.

How much energy does a battery pack hold?

The model box used is the "XL" (LSBX0155) and the total capacity/energy of the battery pack is 7000 Wh (7 kWh). Never before has a fire containment system been successfully tested to contain such a high energy load. Visit our other Battery Box website for more information !.

Can lithium batteries be used in mining?

The mining industry has encountered difficulties in deploying large LIB packs (more than 100 kWh) for the underground coal environment, and currently, most battery applications are only in low-power devices with currents drawn in the milli-amperes range .

Are explosion-proof cells safe?

While the cells enclosed in an explosion-proof box are considered to be safe, there are reports that the thermal runaway propagation from a single cell will ignite the space within the enclosure to a pressure far beyond its limit [12, 18, 19].

How much energy does a traction battery pack need?

In some mines, a traction battery pack with energy up to 100 kWh will need an explosion-proof enclosure that could withstand internal pressure of up to 1.5 MPa (15 bar) .

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