

## Kongres Container

# Air-cooled battery energy storage box structure



## Overview

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Tutorial model of an air-cooled battery energy storage system (BESS). The model includes conjugate heat transfer with turbulent flow, fan curves, internal screens, and grilles. It features several interesting aspects: Fully parameterized geometry, which can be modified for different cell sizes.

Abstract: The utility model discloses an air cooling structure for a battery pack of a new energy vehicle, which comprises a structural body, and both ends of the inner part of the protective frame are provided with limited position rods, and an inserting plate one is provided inside the inserting.

First, the three-dimensional battery pack model is converted into the two-dimensional model to simulate 2000 battery packs, saving much calculation time. Subsequently, five parameters, including the width of the inlet and the outlet, the position of the inlet and the outlet, and the battery.

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