

Guidelines on Lithium-ion Battery Use in Space Applications NASA Engineering Safety Center Battery Working Group Prepared by Barbara McKissock, Patricia Loyselle, and Elisa Vogel NASA Glenn Research Center MARCH 2008. NASA Engineering and Safety Center Technical Report Document #: RP-08-75
Version:

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The battery space optimization should be provided without changing the volume of the BP and decreasing both Max Temp and Temp Diff between the BP. vi. ... Peng X, Ma C, Garg A, Bao N, Liao X (2019) Thermal performance investigation of an air-cooled lithium-ion battery pack considering the inconsistency of battery cells. Appl Therm Eng 153:596-603

In this article, two categories of representative battery pack are applied for validating the proposed model and algorithms, including a Ni_{0.83}Co_{0.15}Mn_{0.02} (NCM 523) battery pack and lithium iron phosphate (LFP) battery pack. The former one is the most common vehicular energy storage system and has a total inventory of more than about 1 GWh.

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Abstract: Lithium-ion battery packs are critical to ensure the operational reliability and service life of spacecraft. The battery pack health diagnosis is meaningful for reasonable mission plan and proper control actions of spacecraft. However, the characters of space application scenarios include periodic charge and discharge, nearly constant discharge current, low electric current ...

The battery pack, made of aluminum blocks with dimensions of 30*10*6 cm, contains 48 lithium-ion battery cells. These cells are arranged in a 4 by 12 configuration, meaning that 12 cells are placed on each level.

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