

ContainerPower Energy Solutions

National regulations on flow batteries for communication base stations



Overview

Can repurposed EV batteries be used in communication base stations?

Among the potential applications of repurposed EV LIBs, the use of these batteries in communication base stations (CBSs) is one of the most promising candidates owing to the large-scale onsite energy storage demand (Heymans et al., 2014; Sathre et al., 2015).

Which stakeholders should bear the environmental burdens of battery recycling?

Since battery recycling occurs at the end of the secondary use in CBS, stakeholders in the reusing sector should bear the environmental burdens of recycling. In this case, the two allocation factors α and β are respectively set to 0 and 1.

What should a battery room/chamber have?

The standard points out that the battery room/chamber should be equipped with an automatic fire extinguishing system, which is linked with the battery management system (BMS), fire detector or flammable gas detection device, air conditioner, and exhaust system, and has the functions of remote passive command start and emergency mechanical start.

What is battery management system (BMS)?

The battery management system (BMS) provides monitoring and manages the charge/discharge processes of the batteries. Fig. 2. (a) Schematic diagram of the CBS power supply system, (b) composition of DC power supply system of CBS.

Should repurposed lithium batteries be used as a lab system?

From the resource point of view, the MDP of repurposed LIBs is not always preferable to that of the conventional LAB system. Recently, the environmental and social impacts of battery metals such as nickel, lithium and

cobalt, have drawn much attention due to the ever-increasing demand (Ziemann et al., 2019; Watari et al., 2020).

What is the recycling stage of a lithium ion battery?

In the recycling stage, the collected LIB packs are dismantled to obtain the main components, such as battery cells, BMSs, and packaging, and various material fractions are recovered from these components separately (Table A1 in the supplementary materials).

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