Containerized Energy Storage Vehicle Cooperation Model

Overview

Are SoC estimation results for containerized energy storage systems better than CNN-LSTM?

Therefore, the SOC estimation results for containerized energy storage systems using the CNN–LSTM model are not consistently better than those using the CNN model. Thereason is that certain estimation stages (e.g., areas I and V of Fig. 7 (a)) have a small demand for time-series data.

What is the capacity of a containerized energy storage system?

The capacity of the energy storage system is 1.114 MWh. The rated output voltage is 380 V with a range of 342 V–418 V. The total operating voltage of the battery system is from 772.8 V to 993.6 V. The schematic of the operation of the containerized energy storage system is shown in Fig. 1 (b).

What is the operating voltage of a containerized energy storage system?

The total operating voltage of the battery system is from 772.8 V to 993.6 V. The schematic of the operation of the containerized energy storage system is shown in Fig. 1 (b). The containerized energy storage system is mainly divided into the containerized electrical room and the containerized battery room.

What is a containerized lithium ion battery energy storage system?

As a novel model of energy storage device, the containerized lithium–ion battery energy storage system is widely used because of its high energy density, rapid response, long life, lightness, and strong environmental adaptability [2, 3].

What is a containerized battery room?

The containerized battery room includes battery pack 1, battery pack 2, fire protection system, and battery management system (BMS). The electrical room includes a data acquisition system and power conversion system (PCS). The energy storage battery cluster is connected to the power transformer

through the PCS.

How is energy storage system performance assessed?

Model testing: The performance of the obtained model, F ($\partial *$), is assessed using a test dataset. The estimated output of the energy storage system is obtained by summarizing the data from the test dataset and inputting them into F ($\partial *$).

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