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(54) **ENERGY STORAGE MODULE AND ENERGY STORAGE SYSTEM**

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(57) **ABSTRACT**

An energy storage module includes a bus connection part, a battery pack, a capacitor and a series compensation DC conversion device. A first conduction terminal of the series compensation DC conversion device is electrically connected with a positive bus connection terminal and a negative bus connection terminal of the bus connection part, or the first conduction terminal is connected with a battery positive terminal and a battery negative terminal of the battery pack. A second conduction terminal of the series compensation DC conversion device is electrically connected with two terminals of the capacitor. A four-quadrant DC/DC converter of the series compensation DC conversion device controls the capacitor to generate a compensation voltage to compensate a voltage between the two terminals of the battery pack, or the four-quadrant DC/DC converter adjusts a current flowing through the battery pack to a set value.

