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(54) **ENERGY STORAGE MODULE WITH BYPASS CIRCUIT**

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(57) **ABSTRACT**

An energy storage module with bypass circuit is provided. The energy storage module includes a first battery pack, a first capacitor, a bypass circuit and a bidirectional isolated converter. The first capacitor is electrically connected between the positive bus connection terminal and the first positive battery terminal or between the negative bus connection terminal and the first negative battery terminal. The bypass circuit is electrically connected to two terminals of the first capacitor. The first positive and negative connection terminals of the bidirectional isolated converter are electrically connected to the positive and negative bus connection terminals respectively or are electrically connected to the first positive and negative battery terminals respectively. The second positive and negative connection terminals of the bidirectional isolated converter are electrically connected to the two terminals of the first capacitor respectively. When the energy storage module enters a bypass mode, the bypass circuit bypasses the first capacitor.

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