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(54) **CHARGE/DISCHARGE CIRCUIT, SYSTEM, AND CONTROL METHOD**

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**ABSTRACT**

A charge/discharge circuit includes a power supply module including a battery group, a heating module including an energy storage module and a switch module, and a charge-discharge switching module. The battery group, the switch module, and the charge-discharge switching module are connected in parallel. A first terminal of the energy storage module is connected to the switch module, and a second terminal of the energy storage module is connected to the charge-discharge switching module. The charge-discharge switching module and the switch module are configured to produce a current of an alternating-current waveform in the charge/discharge circuit in response to a charge/discharge enable signal.

