

ABSTRACT

VEHICLE, AND ENERGY CONVERSION APPARATUS AND CHARGING METHOD THEREOF

A vehicle has an energy conversion apparatus. The energy conversion apparatus includes a first switch module and a second switch module, and configures the second switch module between a power battery and a voltage transformation module. When the first switch module is closed, the power battery, the first switch module, an energy storage module, and an external power supply module form a first charging loop. When the second switch module is closed, the power battery, the second switch module, the voltage transformation module, the energy storage module, and the external power supply module form a second charging loop.