

Abstract

To provide a power supply device and a power supply control method capable of suppressing fluctuation of an output voltage while preventing instantaneous interruption and continuing stable supply of power even when the connection of plural secondary batteries is switched respect to a load.

A power supply device includes a first battery and a second battery configured to charge and discharge, a first switch having one end connected in series to an output part of the first battery, a second switch having one end connected in series to an output part of the second battery, a parallel connection part to which another end of the first switch and another end of the second switch are connected, and a switch control unit configured to control the opening and closing of the first switch and the second switch. The switch control unit has an overlap period during which the first switch and the second switch are simultaneously closed when the first switch is changed from a closed state to an open state and the second switch is changed from an open state to a closed state.