

ABSTRACT

Provided is an incorporated device that incorporates therein an electrolytic cell and a power control device that is capable of suppressing temperature rise in the electrolytic cell to thereby suppress a reduction in the life of electrodes, and a method for controlling an incorporated device. The incorporated device incorporates therein an electrolytic cell and a power control device that is capable of suppressing temperature rise in the electrolytic cell to thereby suppress a reduction in the life of electrodes. The power control device includes: a voltage-current control circuit that supplies, in a constant current control mode, an electrolysis current to the electrolytic cell while the voltage-current control circuit controls the electrolysis current not to exceed a current value of a reference current, the current value of the reference current being preliminary set according to a rated current of a unit cell constituting the electrolytic cell; and a temperature detecting part that detects an environmental temperature of an outside of the electrolytic cell, the environmental temperature being a temperature of an inside of the incorporated device. The voltage-current control circuit stops supply of the electrolysis current when a detected temperature of the temperature detecting part falls outside of a preliminarily set rated temperature range, and resumes supply of the electrolysis current when the detected temperature of the temperature detecting part returns within the rated temperature range.