ABSTRACT

According to one embodiment, a power conversion device includes a carrier generating unit, a setting unit, a PWM signal generating unit, and a power conversion unit. The carrier generating unit generates a carrier of a particular set carrier frequency during a certain continuation time. The setting unit sets the continuation time to be random and sets one carrier frequency among a plurality of mutually-different carrier frequencies as the set carrier frequency. The PWM signal generating unit generates a PWM signal based on the carrier generated by the carrier generating unit. The power conversion unit executes a power conversion based on the PWM signal and supplies converted power to a load.

~~A setting unit of a power conversion device according to an embodiment sets a continuation time to be random and sets one carrier frequency among a plurality of mutually-different carrier frequencies as a set carrier frequency. Accordingly, a carrier generating unit generates a carrier of the particular set carrier frequency during a certain continuation time. Then, a PWM signal generating unit generates a PWM signal based on the carrier generated by the carrier generating unit, and a power conversion unit executes a power conversion based on the generated PWM signal and supplies converted power to a load.~~