

## Power Conversion Device and Power Conversion System

## ABSTRACT

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A power conversion device (44) includes a second DC/AC conversion circuit (408). The second DC/AC conversion circuit (408) operates as a voltage source for an AC grid based on a command notified from an external controller to a communication interface (412). A fourth control circuit (409) generates phase information of the grid AC voltage based on an actually measured value of a grid AC voltage output from the second DC/AC conversion circuit (408) to a power distribution grid (24), and calculates a target AC voltage in a shape of a sinusoidal wave using a frequency command value of the grid AC voltage notified to the communication interface (412) and the generated phase information. The fourth control circuit (409) controls an operation of the second DC/AC conversion circuit (408) to compensate for a deviation between the actually measured value of the grid AC voltage and the target AC voltage.

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Fig. 6