

ABSTRACT

Grid System and Control Device of Grid System

A power conversion device (50a, 50b) inputs or outputs a power for changing a state quantity of a distribution grid (40) to which a voltage source device (10) is connected, to or from the distribution grid. A grid control unit (60a, 60b) calculates a power command value of the power conversion device (50a, 50b) such that a drooping characteristic is provided for compensating for a deviation from a control target of the state quantity of the distribution grid (40) obtained from an output of a detector (52a, 52b, 54a, 54b). A frequency characteristic of control computation for calculating a power command value from the deviation in the system control unit (60a, 60b) is defined such that a first control gain value in a first frequency range including direct current is set corresponding to a slope of the drooping characteristic, and a second control gain value in a second frequency range including higher frequencies than the first frequency range is set to be lower than the first control gain value.

[Fig. 1]