

ABSTRACT

DEVICE FOR CONTROLLING POWER CONVERSION APPARATUS

A direct-power converter control device that enables driving of a motor with high efficiency while suppressing noise is provided. Ripple power having a first variation range is input into a DC link (DC power supply lines (LH, LL)). Buffer power is provided and received between the DC link and a power buffer circuit (4), so that the DC link outputs DC power having a second variation range smaller than the first variation range. An inverter (5) receives the DC power as an input, and outputs AC power to a motor (6). A power control unit (11) controls the power buffer circuit and the inverter on the basis of a compensation rate (k) that sets the second variation range. A compensation rate setting unit (12) performs a setting in which the compensation rate (k) when a rotational speed (ω_m) of the motor (6) belongs to any of a plurality of first predetermined ranges is higher than the compensation rate (k) when the rotational speed (ω_m) belongs to a second predetermined range other than the plurality of first predetermined ranges.

FIG. 1