

Abstract

Without shortening clock pulse duration serving as a unit time of a pulse generator, a pulse-width control is possible in which pulse duration varies in increments of a time length shorter than the unit time. A time width T_{on_s} of a pulse width finely dividing signal V_s from a DSP 17 varies by clock pulse duration T_{clk} in response to variations in an output voltage V_o . A time control circuit 18 that has received the pulse width finely dividing signal V_s generates, in a control signal V_d , varying segments 30, 31 for making the time width of the pulse drive signal V_g vary by a shorter time ΔT_d than the clock pulse duration T_{clk} . Consequently, resolution of the time width of the pulse drive signal V_g is improved so as to be higher than the clock pulse duration T_{clk} , which is time resolution of the DSP 17 itself.