

ABSTRACT

Disclosed in the present invention is a digital chip-based digital driving method for a piezoelectric ceramic transformer, comprising the following steps: acquiring a rectified output voltage of a piezoelectric ceramic transformer; comparing the acquired output voltage with a preset voltage, and if there is a difference, adjusting the frequency of a driving signal; and adjusting the step-up ratio of the piezoelectric ceramic transformer by means of the frequency of the driving signal, so that the piezoelectric ceramic transformer outputs the preset voltage. In the present invention, the driving frequency can be changed in a digital way, so as to change the step-up ratio of the piezoelectric ceramic transformer, thereby finally stabilizing the output voltage. The piezoelectric ceramic transformer has stable output voltage, strong environmental adaptability and high reliability.

Figure 1