

ABSTRACT

A photovoltaic air conditioner control method and apparatus and a photovoltaic air conditioner. The method comprises: detecting in real time the grid-connected side inverter module temperature and the grid-connected side current of a photovoltaic air conditioner; determining the interval in which the grid-connected inverter module temperature is located and the interval in which the grid-connected side current is located; and, on the basis of the determining results, performing frequency-limiting and frequency-reduction control of the photovoltaic air conditioner. By means of the present method, rapid frequency limiting and reduction can be implemented without the need to detect the operating frequency of the compressor, preventing the equipment from being damaged due to the continuous increase of the operating frequency of the compressor when the power of the photovoltaic side power generation is high, and also avoiding repeated frequency limiting and reduction of the compressor affecting the current heating or cooling effect of the photovoltaic air conditioner.

[Figure 1]