

Distributed Power Source Management Apparatus and Power Distribution System

ABSTRACT

5 A distributed power source management apparatus (31) to manage one or more distributed power sources is provided. Each of the one or more distributed power sources is connected to a power system and operates as a voltage source. Relation between a frequency and electric power of each of the one or more distributed power sources has drooping characteristics and is adjusted such that a frequency command value (Fref) and a power command value (Pref) correspond to each other. The distributed power source management apparatus (31) includes an AC frequency collector (313) to collect information on an AC frequency of the power system and to determine a representative value (Fmeasure) of the AC frequency based on the collected information on the AC frequency and a frequency command value generator (315) to generate the frequency command value (Fref) for each of the one or more distributed power sources based on the representative value of the AC frequency.

Fig. 2