

APPARATUS AND METHOD FOR SUPPLYING HYBRID POWER OF OFFSHORE PLANT

ABSTRACT】

The present invention relates to an apparatus and a method for supplying hybrid power by using regenerative power generated at an offshore plant. According to an embodiment of the present invention, provided is an apparatus for supplying hybrid power of an offshore plant, the apparatus comprising: a generator; an AC/DC converter converting, into direct current, alternating current generated from the generator so as to supply the direct current to a DC bus; a power load connected to the DC bus so as to generate regenerative power; a first power storage unit for storing power when a voltage of the DC bus is maintained at a level of a first threshold value or higher for a first time period, and supplying the stored power to the DC bus when the voltage of the DC bus is maintained at a level of a second threshold value or lower for a second time period; and a first resistance unit for consuming power when the voltage of the DC bus is maintained at the level of the first threshold value or higher for a third time period, wherein the third time period is longer than the first time period.

Figure 3