

APPARATUS AND METHOD FOR SUPPLYING HYBRID POWER OF OFFSHORE PLANT

【ABSTRACT】

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

Figure 4