CLAIMS

1. A power converter comprising:

a DC link that includes a first power supply line and a second power supply line;

a converter that receives a single-phase AC voltage, and outputs a pulsating power to said DC link;

an inverter that receives a power from said DC link, and outputs an AC current; and

a power buffer circuit that receives a charge power from said DC link, and outputs a discharge power to said DC link, wherein

when at least said pulsating power exceeds a predetermined value, a variation of said discharge power to said charge power is smaller than an AC component of said pulsating power.

2. The power converter according to claim 1, wherein

an input power input from said DC link into said inverter takes a value obtained by subtracting said charge power from a sum of said pulsating power and said discharge power, and

when at least said pulsating power exceeds said predetermined value, said charge power takes a value which is a constant times said pulsating power, and said discharge power takes a value obtained by adding said charge power to (−2) times said AC component of said pulsating power multiplied by said constant,

wherein said constant is a positive number less than 1/2.

3. The power converter according to claim 2, wherein

said predetermined value is set so as to be smaller than a maximum rated power of said pulsating power.

8. The power converter according to any one of claims 1 to 7, wherein

when said pulsating power is equal to or smaller than the predetermined value, said variation of said discharge power to said charge power is equal to said AC component of said pulsating power.

9. The power converter according to any one of claims 1 to 8, wherein

when said pulsating power exceeds the predetermined value, said variation (Pc – Pl) of said discharge power to said charge power is independent of said pulsating power.