C L A I M S

1. An electric power system comprising:

an uninterruptible power supply including an AC switch provided between a commercial power supply and an output part, a secondary battery, and an inverter provided between the AC switch and secondary battery;

an important load connected to the output part;

a distributed power supply connected to the output part;

total load power consumption detection means for detecting the power consumption of all loads including the important load;

charge/discharge power detection means for detecting charge/discharge power of the secondary battery;

output power detection means for detecting the output power of the distributed power supply;

important load power consumption detection means for detecting the power consumption of the important load; and

a controller that inputs thereto detection values from the total load power consumption detection means, charge/discharge power detection means, output power detection means, and important load power consumption detection means and outputs a control command value for controlling the secondary battery, characterized in that

the controller determines the control command value for operating the secondary battery based on the detection values from the total load power consumption detection means, charge/discharge power detection means, output power detection means, and important load power consumption detection means.

CLAIMS

1. An electric power system comprising:

an uninterruptible power supply including an AC switch provided between a commercial power supply and an output part, a secondary battery, and an inverter provided between the AC switch and secondary battery, a photovoltaic power supply;

an important load connected to the output part;

total load power consumption detection means for detecting the power consumption W_{Load} of all loads including the important load;

charge/discharge power detection means for detecting charge/discharge power

W_{BAT} of the secondary battery;

output power detection means for detecting the output power of the photovoltaic power supply;

important load power consumption detection means for detecting the power consumption of the important load; and

a controller that inputs thereto detection values from the total load power consumption detection means, charge/discharge power detection means, output power detection means, and important load power consumption detection means and outputs a control command value for controlling the secondary battery, characterized in that

the controller makes the power consumption W_{Load} and the charge/discharge power W_{BAT} pass through a band-pass filter, then makes the signal out of the band-pass filter pass through the limiter, which limits the input value by the upper limit value ($W_{ACSWmax}$) and lower limit value ($W_{ACSWmin}$) of the power flow, and acquires a signal $W_{ACSWref}$, and determines

a control command value W_{BATref} for the secondary battery by following equation

(W_{BATref}) = $(W_{ACSWref})$ − (the output of photovoltaic power supply) + (the power consumption of important load).