

6.12. CAPACITY COMPENSATION DEVICE UKE 220-200 (YKE 220-200)

The UKE 220-200 device based on a static power converter with a pulse-width control with a power of 40 kW is intended for the automatic discharge of accumulator batteries of emergency protection systems in order to control their condition and suitability for further operation at power stations.

Advantages over analogues: the device allows to carry out a controlled discharge of batteries with a voltage from 50 to 270 V with the support of a set discharge current.

Main technical specifications:

- battery voltage – 50 ... 270 V;
- discharge current – 1...150 A, at additional load 50 A – 50...200 A, at additional load 100 A – 100...250 A;
- accuracy of discharge current support - $\pm 1\%$;
- sampling of a discharge current reference – 1 A;
- response time to discharge current – no more than 20 S.

The use of UKE 220-200 device at the Khmelnytsky NPP and a number of power generating capacities at TPP of “Skhidenergo” LLC (ТОВ "Східенерго"), “Tsentrenergo” OJSC (БАТ "Центренерго"), “Donbassenergo” OJSC (БАТ "Донбасенерго") allows to significantly increase the operation reliability of power generating facilities due to the accuracy of maintaining the given technological modes of powerful accumulator batteries and providing the technical staff with the full detailed current information on the status of emergency power supply systems and their suitability for further operation.

