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New type of capacitor-switch assembly for LTD technology

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In LTD technology, the critical element that has the greatest impact on the output parameters of the generator is the primary storage unit - the capacitor-switch assembly (or "brick"). The electrical parameters of the capacitor-switch assembly (CSA), its dimensions and number determine the parameters of the LTD stage and, as a result, of the total LTD generator. This paper presents a new type of CSA 160-0.1, describes the features of its design and output parameters. The results of high-voltage tests of the new CSA with the matched load and intermediate results of life tests are presented. We have evaluated the prospect of using the developed CSA in the LTD technology.

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