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This paper presents the fundamental properties and dependences describing the UPQC (Unified Power Quality Conditioner) arrangements. The UPQC devices simultaneously permit to fulfill the following functions: voltage and current harmonics compensation, network voltage and load current symmetrization as well as network voltage stabilization and power flow control. The selected results of the experimental investigations conducted on the small power laboratory model have been described.

Applied method for DC link capacity selection was talked over in details and confirmed with experimental results. Results of experimental investigations, including operation of the UPQC arrangement in case of thyristor rectifier load were also introduced.



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