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«Step-down converter with voltage stabilization for the electric power plant based on hydrogen fuel elements for unmanned aerial vehicles. Design and investigation»

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Problem statement

- Development of the step-down converter with voltage stabilization for the electric power plant based on fuel elements
- Choice of the converter structure with the stabilization circuit
- Numerical simulation of the main operation converter modes
- Experimental studies of the prototype, confirming its performance
1300 W Converter model
Conclusions

Results, implementation

• The structure and design of the step-down converter for the UAV electric power plant on hydrogen fuel elements were proposed.

• The test sample experimental studies that have been carried out confirmed its efficiency, adequacy of the methods of design calculation and simulation of converter operation modes.
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