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THE ANALYSIS OF THE RELATION OF COMBINED SYSTEM POWER SUPPLIES EFFICIENCY WITH CONTROL PARAMETERS

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Abstract

The analysis of the relation of combined system power supply efficiency with control parametres of the power semi-conductor converter and a dynamo is made. The optimal loading modes, that allowing to receive the greatest possible efficiency of system in all control band, are determined. References 4, figures 4.

Key words: combined power supply system, vehicle converter.

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References

1. Rychkov V.A., Denichenko S.L. Study traction nickel-zinc batteries for electric vehicle. *Tekhnicheskaya Elektrodinamika*. – 1982. No 3. P. 102 – 106. (Rus)
2. Skidanov V.M. Determining the optimal inverter control parameters in the autonomous traction drives DC. *Tekhnicheskaya Elektrodinamika*. 1985. No 5. P. 56 – 61. (Rus)
3. Miller J.M. Hybrid electric vehicle propulsion system architectures of the e-CVT type. *IEEE Trans. Power Electron*. 2006. Vol. 21. No. 3. P. 756 – 767. DOI: <https://doi.org/10.1109/TPEL.2006.872372>
4. Zhu Z. Electrical machines and drives for electric, hybrid, and fuel cell vehicles. *Proc. IEEE*. 2007. Vol. 95. No. 4. Pp. 764-765. DOI: <https://doi.org/10.1109/JPROC.2006.892482>

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