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Translation

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Power supply installations for passenger stock – Effect on electrical installations outside passenger coaches

Installations pour l'alimentation en énergie électrique du matériel à voyageurs - Influence des équipements électriques à l'extérieur des voitures

Elektrische Energieversorgungseinrichtungen für Wagen der Reisezugwagenbauart - Beeinflussung elektrischer Einrichtungen außerhalb der Reisezugwagen



UNION INTERNATIONALE DES CHEMINS DE FER
INTERNATIONALER EISENBAHNVERBAND
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The person responsible for this leaflet is named in the UIC Code

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Summary

This leaflet defines the limit values for the effect on electrical and signalling installations outside passenger coaches caused by power supply installations in passenger coaches supplied by the train line. It applies to any passenger stock in generalised use in international traffic.

The general provisions with which power supply installations in passenger coaches must comply are set out in *UIC Leaflet 550*. The conditions for type testing the power supply systems are laid down in *UIC Leaflet 550-2*.

1 - General

Electrical installations in passenger coaches, and in particular energy supply systems supplied by the train line, shall not interfere with electrical installations and signalling circuits outside passenger coaches. Therefore the limit values specified for the harmonic currents produced in the current circuit of the train line by installations in coaches and for magnetic fields may not be exceeded.

In order for the signalling installations of railways using direct current to function properly, the minimum values for the input impedance of static converters connected to the train line in coaches must be respected.

Compliance with the specified limit values shall be verified using standardised measurement methods, which may be specific to the railway in question. Compliance shall also constantly be ensured during deployment of coaches.