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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 36286-2018

**Railway application -- Auxiliary power supply system for rolling
stock**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

1 Scope

This standard specifies the conditions of use, system components and technical requirements for the auxiliary power supply system for locomotives and vehicles, technical requirements for components, and inspection methods.

And inspection rules.

This standard is applicable to railway trains and power concentrated EMUs (excluding power-supply-assisted generators) that are powered by electric locomotives or diesel locomotives.

Decentralized EMU, Metro and Light Rail EMUs. Construction vehicles can refer to the implementation.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article

Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB/T 156 standard voltage

GB/T 1402 Rail Traction Power Supply System Voltage

GB/T 2423.1 Environmental testing for electric and electronic products Part 2. Test methods
Test A. Low temperature

GB/T 2423.2 Environmental testing for electric and electronic products Part 2. Test methods
Test B. High temperature

GB/T 2423.4 Environmental testing for electric and electronic products Part 2. Test methods

Test Db. Alternating heat and humidity (12h 12h

ring)

GB/T 4208-2017 shell protection grade (IP code)

GB/T 21413.1-2008 Railway applications - Electric equipment for rolling stock - Part 1.
General conditions of use and general rules

GB/T 21413.2 Railway applications - Electric equipment for locomotives and rolling stocks -
Part 2. General rules for electrotechnical devices

GB/T 21414-2008 Provisions for protection against electrical hazards in railway applications
for rolling stock

GB/T 21563-2018 Impact and Vibration Tests for Locomotive and Rolling Stock Equipment
on Rail Transit

GB/T 24338.3 Electromagnetic compatibility of rail transit - Part 3-1. Locomotives, trains
and vehicles

GB/T 24338.4 Rail transport electromagnetic compatibility - Part 3-2. Locomotive and
rolling stock equipment

GB/T 25119-2010 Electronic equipment for rail transit rolling stock

GB/T 25120 Rail Transit Locomotive Traction Transformers and Reactors

GB/T 25121 Rail Transit Locomotive Equipment Power Electronics Capacitors

GB/T 25122.1-2010 Electric power converters for rolling stock rolling stock? Part 1.
Characteristics and test methods

GB/T 25123.2 Electric Traction Railways - Rotating electrical machines for rolling stock and
road vehicles - Part 2. Electrically powered converters

AC motor

GB/T 25343 (all parts) Welding of railway vehicles and their components

GB/T 32347.1-2015 Environmental conditions for rail transit equipment - Part 1. Equipment
for locomotives and vehicles

Rules for GB/T 34571 Rail Transit Locomotives and Vehicles

TB/T 1508 Locomotive Electric Screen Cabinet

TB/T 3061 Batteries for vehicles

IEC 61133.2016 Railroad Applica-

tions-Rollingstock-Testingofrollingstockoncompletionofconstructionandbeforeentintoto

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