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**Measurement Methods of Net Power for Automotive  
Engines and Drive Motor**  
**汽车发动机及驱动电机净功率测试方法**

*(English Translation)*

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# Measurement Methods of Net Power for Automotive Engines and Drive Motor

## 1 SCOPE

This document describes the test methods for the net power of engines and drive motor systems intended for motor vehicles of Categories M and N and the maximum 30 min power of drive motor system, according to the curve of the net power indicated by the manufacturer as a function of engine speed.

This document is applicable to reciprocating piston engines (positive or compression ignition) or rotor engines (positive or compression ignition), but not applicable to free piston engines.

This document is applicable to the drive motor systems.

## 2 NORMATIVE REFERENCES

The following normative documents contain provisions which, through normative reference in this text, constitute essential provision of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendment) applies.

GB 17691-2018 Limits and Measurement Methods for Emissions from Diesel Fueled Heavy-Duty Vehicles (CHINA VI)

GB 18352.6-2016 Limits and Measurement Methods for Emissions from Light-Duty Vehicles (China 6)

## 3 TERMS AND DEFINITIONS

For the purpose of this document, the terms and definitions established in GB 17691-2018 and GB 18352.6-2016, as well as the following apply.

### 3.1 net power

the power measured on a test bench at the end of the engine crankshaft (shaft end of drive motor system) or its equivalent at the corresponding speed, where correction should be made to engine products under reference atmospheric condition

Note: The net power of drive motor system is identical to the peak power of drive motor system described in GB/T 18488.

### 3.2 maximum 30 min power

the average of the maximum net power continuously output by the drive motor system, according to the specified test procedure, within 30 min



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