

ANSI/CEA Standard

Testing & Measurement Methods for Mobile Audio Amplifiers

ANSI/CEA-2006-B

June 2009



CEA
Consumer Electronics Association

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(Formulated under the cognizance of the CEA's **R6 Portable, Handheld and In-Vehicle Electronics Committee.**)

Published by

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Technology & Standards Department
1919 S. Eads Street
Arlington, Virginia 22202

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FOREWORD

This standard was developed under the auspices of the Consumer Electronics Association (CEA) R6 Mobile Electronics Committee.

CEA-2006-B supersedes CEA-2006-A and CEA-2006.

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Testing & Measurement Methods for Mobile Audio Amplifiers

1 Scope

CEA-2006-B defines characteristics that, considered collectively, describe the performance of power amplifiers designed for use in mobile applications. Power amplifiers designed for use in mobile applications include, but are not limited to; separate single and multi-channel amplifiers, integrated amplifiers and bandwidth-limited amplifiers that are connected to and rely solely on the vehicle's primary electrical system for power input and have output power ratings of greater than 5 watts when measured in accordance with CEA-2006-B.

See CEA-490-A for testing and measurement methods for those audio amplifiers that are not designed for in-vehicle applications.

2 References

2.1 Normative References

The following standards contain provisions that, through reference in this text, constitute normative provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards listed in Section 2.1.1.

2.1.1 Normative Reference List

CEA-490-A, Testing and Measurement Methods for Audio Amplifiers, December 2004

IEC 60651, Sound Level Meters, October 2001

2.1.2 Normative Reference Acquisition

CEA, IEC Standards:

- Global Engineering Documents, World Headquarters, 15 Inverness Way East, Englewood, CO USA 80112-5776; Phone 800-854-7179; Fax 303-397-2740; Internet <http://global.ihs.com>; Email global@ihs.com

2.2 Informative References

2.3 Informative References List

AES17-1998 (r2004), AES Standard Method for Digital Audio Engineering – Measurement of Digital Audio Equipment, March 3, 2004

2.3.1 Informative References Acquisition

AES Standards:

- Audio Engineering Society, Inc., International Headquarters, 60 East 42nd Street, Room 2520, New York, NY 10165-2520; Phone 212-661-8528; Fax 212-682-0477; Internet <http://www.aes.org/standards/>; Email standards@aes.org

3 Symbols and Abbreviations

AES	Audio Engineering Society
dB	Decibel
Hz	Hertz
IEC	International Electrotechnical Commission
kHz	Kilohertz
Ω	Ohm
+/-	Plus or minus
RMS	Root Mean Square