

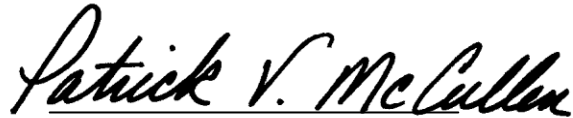
International Accreditation Service
CERTIFICATE OF ACCREDITATION

This is to signify that

CSA INTERNATIONAL
13799 COMMERCE PARKWAY
RICHMOND, BRITISH COLUMBIA V6V 2N9
CANADA

Testing Laboratory TL-270

has met the requirements of the IAS Accreditation Criteria for Testing Laboratories (AC89), has demonstrated compliance with ANS/ISO/IEC Standard 17025:2005, *General requirements for the competence of testing and calibration laboratories*, and has been accredited, commencing November 4, 2011, for the test methods listed in the approved scope of accreditation.



Patrick V. McCullen
Vice President



C. P. Ramani, P.E.
President



Print Date: 12/09/2011

This accreditation certificate supersedes any IAS accreditation certificate bearing an earlier date. The certificate becomes invalid upon suspension, cancellation or revocation of accreditation. See the IAS Accreditation Listings on the web at www.iasonline.org for current accreditation information, or contact IAS directly at (562) 364-8201.

Page 1 of 5

International Accreditation Service
SCOPE OF ACCREDITATION

CSA International TL-270

CSA International
 13799 Commerce Pkwy.
 Richmond, British Columbia V6V 2N9
 Canada

Shawn Paulsen P.Eng.
 Manager, Conformity Assessment
 (416) 747-4223

FIELDS OF TESTING	ACCREDITED TEST METHODS
Electrical Products	ANSI/ISA Standards S 82.01 and S 12.3, Part I; CSA Standards C 22.2, Nos. 0.4, 0.8, 8.0, 9.0, 14, 18, 21, 29, 40, 42, 43, 46, 66, 68, 74, 77, 85, 89, 94, 98, 100, 107.1, 107.2, 108, 109, 113, 128, 141, 142, 155, 158, 182.1, 182.2, 182.3, 182.4, 189, 191, 195, 205, 207, 221, 950-94.2-07 Sections 8.2 (Drip Test) and 8.3 (Rain Test), 60065 and No. 60950; UL Standards 22, 48, 50, 65, 67, 73, 197, 234, 291, 325, 355, 464, 466, 496, 498, 499, 506, 507, 508, 514A, 514C, 541, 544, 603, 676, 705, 710, 751, 778, 813, 869A, 883, 924, 935, 1004, 1012, 1017, 1029, 1042, 1059, 1081, 1088, 1241, 1283, 1310, 1419, 1450, 1559, 1561, 1564, 1567, 1574, 1577, 1585, 1594, 1635, 1647, 1676, 1778, 1812, 1950
Energy Star Program Requirements	Home Electronics: Battery Chargers ENERGY STAR Program Requirements Product Specification for Battery Charging Systems Version 1.1

November 4, 2011
 Commencement Date



C. P. Ramani
 C. P. Ramani, P.E.
 President

Print Date: 12/09/2011

Page 2 of 5

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CSA International TL-270

FIELDS OF TESTING	ACCREDITED TEST METHODS
Energy Star Program Requirements (continued)	<p>IEC Standard 61951-1: Secondary cells and batteries containing alkaline or other non-acid electrolytes – Portable sealed rechargeable single cells – Part 1: Nickel-cadmium. Ed. 2.1. January 2006</p> <p>IEC Standard 61951-2: Secondary cells and batteries containing alkaline or other non-acid electrolytes – Portable sealed rechargeable single cells – Part 2: Nickel-metal hydride. Ed. 2.0. April 2003</p> <p>IEC Standard 61960: Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary lithium cells and batteries for portable applications. Ed. 1.0. December 2003</p> <p>Televisions</p> <p>ENERGY STAR Test Method for Televisions, ENERGY STAR Program Requirements for Televisions, Version 4.2</p> <p>IEC 62087, Ed 2.0: Methods of Measurement for the Power Consumption of Audio, Video and Related Equipment</p> <p>CEA-2037: Determination of Television Average Power Consumption (December 2009)</p> <p>IEC 62301, Ed 1.0: Household Electrical Appliances – Measurement of Standby Power</p> <p>CEA: Procedure for DAM Testing</p> <p>Audio/Video</p> <p>ENERGY STAR Test Method for Audio/Video, ENERGY STAR Program Requirements Product Specification for Audio/Video, Version 2.1, page 13</p>

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Page 3 of 5

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FIELDS OF TESTING	ACCREDITED TEST METHODS
Energy Star Program Requirements (continued)	<p>Office Equipment</p> <p>Computers ENERGY STAR Program Requirements Product Specification for Computers Version 5.2 ENERGY STAR Computer Test Method, ENERGY STAR Program Requirements Product Specification for Computers, Version 5.2, page 22 EPRI Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies (for products that have internal, multi-output, or single output with integral cooling power supplies) IEC 62301: Household Electrical Appliances - Measurement of Standby Power</p> <p>Displays/Monitors ENERGY STAR Program Requirements Product Specification for Displays Version 5.1 Less than 30 inch diagonal viewable area ENERGY STAR Test Method for Displays, ENERGY STAR Program Requirements Product Specification for Displays, page 11 VESA FPDM Standard 2.0 IEC 62301 Ed 1.0: Household Electrical Appliances – Measurement of Standby Power</p>

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Page 4 of 5

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FIELDS OF TESTING	ACCREDITED TEST METHODS
Energy Star Program Requirements (continued)	30–60 inch diagonal viewable area ENERGY STAR Test Method for Displays, ENERGY STAR Program Requirements Product Specification for Displays, page 11 IEC 62087, Ed 2.0: Methods of Measurement for the Power Consumption of Audio, Video and Related Equipment IEC 62301 Ed 1.0: Household Electrical Appliances – Measurement of Standby Power

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