International Accreditation Service

CERTIFICATE OF ACCREDITATION

This is to signify that

CSA INTERNATIONAL
2805 BARRANCA PARKWAY
IRVINE, CALIFORNIA 92606-5114

Testing Laboratory TL-268
(September 14, 2011)

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 January 27, 2011, for the test methods listed in the approved scope of accreditation.

Patrick V. McCullen
Vice President

C. P. Ramani, P.E.
President

(see attached scope of accreditation for fields of testing and accredited test methods)

Print Date: 01/03/2012

11-04577

International Accreditation Service

SCOPE OF ACCREDITATION

CSA International TL-268
(September 14, 2011)

CSA International
2805 Barranca Pkwy.
Irvine, CA 92606-5114

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

FIELDS OF TESTING	ACCREDITED TEST METHODS
Fuel burning appliances and components	ANSI Standards Z21.1, Z21.5.1 - CAN/CGA 7.1, Z21.10.1 - CAN/CSA 4.1, Z21.10.3 - CAN/CSA 4.3, Z21.11.1 and .2, Z21.13, .19, .20, .23, .42 and .57, Z21.15 - CAN/CGA9.1, Z21.18 - CAN/CGA 6.3, Z21.21 - CAN/CGA 6.5, Z21.24 - CAN/CGA 6.10, Z21.47 -CAN/CGA 2.3, Z21.50 - CAN/CSA 2.22, Z21.54 - CAN/CSA 8.4, Z21.56 - CAN/CGA 47, Z21.58 - CAN/CGA 1.6, Z21.60 - CAN/CGA 2.26, Z21.71; Z21.76, Z21.77 - CAN/CGA 6.23, Z21.78 - CAN/CGA 6.20, Z21.84, Z21.86 -CAN/CSA 2.32, Z21.87 - CAN/CSA 4.6, Z21.88 - CAN/CSA 2.33, Z83.6, Z83.7 - CAN/CGA 2.14, Z83.8 - CAN/CGA 2.6, Z83.11 - CAN/CSA 1.8 and Z83.16; ANSI LC3-2000; ASCE Standards 285-97 and CR 90-002; IAS Standards 1-94, 1-97, 2-79, 2-86, 2-89, 2-94, 3-90, 3-92, 4-88, 5-90, 5-94 and 8-93
Electrical products and components	CSA/UL/IEC/EN 60950-1, CSA/UL/IEC/EN 61010-1 and S82.02.02; CAN/CSA-C22.2 No. 601.2.10; CAN/CSA-C22.2 No. 60601-1-1:02; CAN/CSA-C22.2 No. 60601-2-12:03; IEC 60601-2-22; CAN/CSA-C22.2 No. 61010-2-101:04; CAN/CSA-C22.2 No. 61010-2-010:04; CAN/CSA-C22.2 No. 61010-2-051:04; UL 60601-1; IEC 60601-1

January 27, 2011
Commencement Date

ACCREDITED

C. P. Ramani, P.E.
President

Print Date: 01/03/2012

11-04680

International Accreditation Service

SCOPE OF ACCREDITATION

CSA International TL-268
(September 14, 2011)

FIELDS OF TESTING	ACCREDITED TEST METHODS
ENERGY STAR Program Requirements	**Imaging Equipment** **DFE with Single Voltage External Power Supply** ENERGY STAR Program Requirements, Product Specification for Imaging Equipment IEC 62301 Ed 1.0: Household Electrical Appliances – Measurement of Standby Power Test Method for Calculating the Energy Efficiency of Single-Voltage External AC-DC and AC-AC Power Supplies **DFE with internal Power Supply or Multiple Voltage External Power Supply** ENERGY STAR Program Requirements, Product Specification for Imaging Equipment IEC 62301 Ed 1.0: Household Electrical Appliances – Measurement of Standby Power EPRI Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies **Internal Power Supplies** EPRI Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies

January 27, 2011
Commencement Date

ACCREDITED

C. P. Ramani, P.E.
President

International Accreditation Service

SCOPE OF ACCREDITATION

CSA International TL-268
(September 14, 2011)

FIELDS OF TESTING	ACCREDITED TEST METHODS
ENERGY STAR Program Requirements (continued)	**Computers** ENERGY STAR Program Requirements Product Specification for Computers 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 **Dishwashers** ENERGY STAR Program Requirements for Commercial Dishwashers, Version 1.2; NSF/ANSI 3-2007; ASTM Standards F 1696 and F 1920 ENERGY STAR Program Requirements for Residential Dishwashers, Version 4.1, Revised February 2011; 10 CFR 430, Subpart B, Appendix C

January 27, 2011
Commencement Date

ACCREDITED

C. P. Ramani, P.E.
President