



LABELO®
PUCRS



Painel Setorial CB-Scheme

A visão do LABELO sobre o sistema CB-Scheme

Duque de Caxias, 15 de outubro de 2013

PUCRS-LABELO



PUCRS

- 60 anos formando cidadãos;
- Tradição educativa Marista;
- 51 cursos de graduação;
- 110 de pós-graduação;
- 28.000 alunos;
- 1.500 professores e 2.200 funcionários;
- Maior Biblioteca da América do Sul;
- Museu de Ciências e Tecnologia;
- Parque esportivo;
- Tecnopuc;
- LABELO;
- Editora;
- Jornal Mundo Jovem;
- Gráfica EPECE;
- Centro de Eventos PUCRS.

LABELO-PUCRS

- Com atividades desde 1966, localizado no Campus central da PUCRS em Porto Alegre;
- Serviços de calibrações e ensaios;
- Mais de 20 anos de acreditação a Cgcre do Inmetro.

PUCRS-LABELO

Calibração

Eletricidade

Alta frequência e telecomunicações

Fotometria

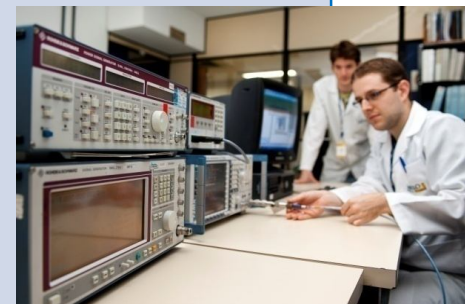
Termometria e Umidade Relativa

Tempo e frequência

Eletroacústica

Energia elétrica

Força, torque e dureza



PUCRS-LABELO

Eletrodomésticos	Industriais e especiais	Materiais e componentes	Iluminação	Uso profissional e infraestrutura	Alta tecnologia
Refrigeração	Corrosão	Alta tensão	Lâmpadas	Eletromédicos	Áudio e vídeo
Microondas	Áreas classificadas	Química	Luminárias	Fios, cabos e cordões	Compatibilidade eletromagnética
Máquinas de lavar	Índice de proteção	Equip. odontológico-hosp.	Porta-lâmpadas	Plugues	Ensaio acústico
Condicionadores de ar	Medidores de energia elétrica	Componentes	Reatores	Tomadas	Tecnologia da informação
Ventiladores	Motores por indução	EPI	Relés fotoelétricos	Conectores	Telecomunicações
Eletrodomésticos (Portaria 371)		Cadeiras plásticas	LED		TV Digital
		Flamabilidade e polímeros			Bens de informática
		Materiais de rede de distribuição			No-breaks e estabilizadores



RECONHECIMENTO DE LABORATÓRIOS

O laboratório (CB Testing Laboratory) deve atender aos requisitos:

- ISO/IEC 17025
- IECEE 01 - The Basic Rules
- IECEE 02 - Rules of Procedure

Avaliação entre pares


Laboratório de Ensaios com atuação junto a um *National Certification Body* (NCB)

Permitida a utilização de laboratórios de 1ª parte junto ao NCB

Fonte: <http://www.iecee.org/>

TEST REPORT FORM



Documento padronizado para declaração dos resultados de ensaios (relatório de ensaio).

	Test Report issued under the responsibility of:
TEST REPORT IEC 6xxxx Title of the IEC Standard	
Report Number. : <input type="text"/>	
Date of issue :	
Total number of pages	
Applicant's name :	
Address :	
Test specification:	
Standard : IEC 6xxxx -x-xxx: YEAR (xx Edition)	
Test procedure..... : CB Scheme	
Non-standard test method : N/A	
Test Report Form No..... : IEC6xxxx_xY	
Test Report Form(s) Originator.... : Name of Originator	
Master TRF : Dated ...	
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Test item description :	
Trade Mark :	
Manufacturer :	
Model/Type reference :	
Ratings :	

TEST REPORT FORM



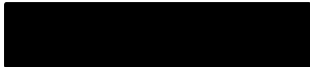
O test report não indica a rastreabilidade das medições.

Item obrigatório pela NBR ISO/IEC 17025.

 	Test Report issued under the responsibility of:
TEST REPORT IEC 6xxxx Title of the IEC Standard	
Report Number : <input type="text"/>	
Date of issue :	
Total number of pages	
Applicant's name :	
Address	
Test specification:	
Standard : IEC 6xxxx -x -xxx: YEAR (xx Edition)	
Test procedure..... : CB Scheme	
Non-standard test method : N/A	
Test Report Form No..... : IEC6xxxx_xY	
Test Report Form(s) Originator.... : Name of Originator	
Master TRF : Dated ...	
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Test item description :	
Trade Mark..... :	
Manufacturer :	
Model/Type reference :	
Ratings	

TEST REPORT FORM

Tempo de aceitação do test report

			Ref. Certif. No. 
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IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST
CERTIFICATES FOR ELECTRICAL EQUIPMENT
(IECEE) CB SCHEME

SYSTEME CEI D'ACCEPTATION MUTUELLE DE
CERTIFICATS D'ESSAIS DES EQUIPEMENTS
ELECTRIQUES (IECEE) METHODE OC

CB TEST CERTIFICATE *CERTIFICAT D'ESSAI OC*

Product
Produit

Electric Oven

Date: 22.03.2005

TEST REPORT FORM

Tempo de aceitação do test report

Page 1 of 95

TEST REPORT IEC 60335-2-41 Safety of household and similar electrical appliances Part 2-41: Particular requirements for pumps	
Report Number	[REDACTED]
Date of issue.....	2011-04-07
Total number of pages	95
Testing Laboratory	[REDACTED]
Address	[REDACTED]
Applicant's name	[REDACTED]
Address	[REDACTED]
Test specification:	
Standard	IEC 60335-2-41:2002 (Third edition) + A1:2004 + A2:2009 in conjunction with IEC 60335-1:2001 (Fourth edition) (incl. Corr.1:2002) + A1:2004 (incl. Corr.1:2005) + A2:2006 (incl. Corr.1:2006) IEC 62233:2005 (First edition)

DIFERENÇAS NACIONAIS

Requisitos regulatórios de cada País devem ser reportados no Boletim CB.

É necessário cumprir as diferenças nacionais.



DIFERENÇAS NACIONAIS

CB Bulletin

The National differences and Group differences, National Deviations, Special National conditions (SNC) and Regulatory Requirements, are based on information provided by the IECEE Member Bodies and/or NCBs and other sources.

Group Differences are applicable for CENELEC member countries: Austria, Belgium, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom and CENELEC affiliate member countries: Turkey.



















[Latest updates to national and group differences](#)

1. Select product category: 2. Select a standard:

To print the entire **OFF** standard list, please [click here](#)

To view all product categories and standards, please [click here](#)

To download all or selected National/Group Differences at once, please [click here](#)

Standard:	60950(ed.3)		
Product category:	OFF		
Title:	Safety of information technology equipment		
Year:	1999-04-12		
 Click on the icon to open the associated document		 FCS member	
National differences	Group differences	Issuing/Recognizing	Recognizing only
Country	National standard reference		Last modification*
Australia	AS/NZS 60950		 2007-05-29
Canada	CAN/CSA C22.2 No. 60950/UL60950 Third Edition		 2007-05-29
China	GB4943-2001		 2013-09-26
Denmark	EN 60950		 2007-05-29
Finland	EN 60950		 2007-05-29
Germany	EN 60950		 2007-05-29
Ireland	EN 60950		 2007-05-29
Japan	J60950 (H19)		 2007-09-10
Korea, Republic Of	K60950		 2007-05-29
Norway	NEK EN 60950		 2007-05-29
Spain	UNE EN 60950		 2012-01-09
Sweden	SS EN 60950, 6th ed		 2007-05-29
Switzerland	EN 60950		 2007-05-29
Ukraine	DSTU 4113-2001		 2007-05-29
United Kingdom	BS EN 60950		 2007-05-29
Usa	UL 60950		 2007-05-29
<small>* The last modified date indicates the last time the standard reference / attachment for this standard was modified. The date 2007-05-29 is the date the information was imported into the online CB</small>			

DIFERENÇAS NACIONAIS

Itens de avaliação do *test report*:

Page 3 of 11

Report No.

Summary of compliance with National Differences

List of countries addressed:

The product fulfills the requirements of _____ (insert standard number and edition and delete the text in parenthesis or delete the whole sentence if not applicable)

Adaptação das condições de ensaio para os requisitos do mercado brasileiro.

Necessária alteração dos requisitos técnicos estabelecidos pelos organismos reguladores para a avaliação da conformidade dos produtos.

DIFERENÇAS NACIONAIS

Test reports específicos para diferenças nacionais:

Page 1 of x

Report No.:

IEC6xxxx_2_xxA - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
ATTACHMENT TO TEST REPORT IEC 6xxxx-xx EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES (Standard title)			
Differences according to	EN xxxxx-2:xx - Year used in conjunction with EN 6xxxx-1:Year+A1:Year		
Attachment Form No.	EU_GD_IEC6xxxx_2_xx(suffix letter)		
Attachment Originator.....	Name of originator		
Master Attachment	Date (200X-XX)		
Copyright © 2008 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved.			

CENELEC COMMON MODIFICATIONS (EN)			

ZB ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)			

ZC ANNEX ZC, NATIONAL DEVIATIONS (EN)			

Page 1 of x

Report No.:

IEC 6xxxx ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
ATTACHMENT TO TEST REPORT IEC 6xxxx (COUNTRY) NATIONAL DIFFERENCES (Standard title)			
Differences according to	National standard xxxxx		
Attachment Form No.	(Country Code)_ND_IEC6xxxx_x_xx(suffix letter)		
Attachment Originator.....	Name of originator		
Master Attachment	Date (200X-XX)		
Copyright © 2008 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved.			

National Differences			

Special national conditions (if any)			

DIFERENÇAS NACIONAIS

Tensão de alimentação: 127V ou 220V;

Frequência da rede: 50Hz e 60Hz;

Ensaio com variação dos parâmetros de ensaio;

Padronização de cabos e cordões utilizados no Brasil.

DIFERENÇAS NACIONAIS

A tensão de alimentação para bens de informática

ANEXO DA PORTARIA INMETRO Nº 170/ 2012

uma resolução de potência igual ou inferior a 0,1 mW e integrar o tempo exibido com uma resolução de 1 segundo ou menos.

E.4.1.2- Condições de ensaio

As condições de ensaio encontram-se resumidas na tabela 6.

Tabela 6 – Condições de ensaio

Tensão de alimentação	127 ($\pm 1\%$) Volts AC, 60 Hz ($\pm 1\%$). Para os produtos com valor nominal maior que 1,5 kW de potência máxima, a faixa de tensão permitida é $\pm 4\%$.
Distorção Harmônica Total (THD) (tensão)	Menor que 2% . Para os produtos com valor nominal maior que 1,5 kW a tolerância é de 5%.

Portaria Inmetro nº 170, de 10 de abril de 2012.

(Disponível em <http://www.inmetro.gov.br/legislacao/rtac/pdf/RTAC001808.pdf>)

DIFERENÇAS NACIONAIS

Ensaio climático

60335-2-24 © IEC:2010

– 13 –

5.7 Addition:

For ice-cream appliances, tests specified in Clauses 10, 11 and 13 are carried out at an ambient temperature of $23\text{ °C} \pm 2\text{ °C}$.

For other appliances, tests specified in Clauses 10, 11, 13 and subclause 19.103 are carried out at an ambient temperature of

$32\text{ °C} \pm 1\text{ °C}$ on appliances of extended temperate (SN) and temperate (N) classes;

$38\text{ °C} \pm 1\text{ °C}$ on appliances of subtropical (ST) class;

$43\text{ °C} \pm 1\text{ °C}$ on appliances of tropical (T) class.



DIFERENÇAS NACIONAIS

Ensaio climáticos

– 14 –

60335-2-24 © IEC:2010

6 Classification

This clause of Part 1 is applicable except as follows.

6.101 Appliances, other than **ice-cream appliances**, shall be of one or more of the following climatic classes:

- appliances of extended temperate class (SN);
- appliances of temperate class (N);
- appliances of subtropical class (ST);
- appliances of tropical class (T).

Compliance is checked by inspection.

NOTE The climatic classes are specified in IEC 62552.



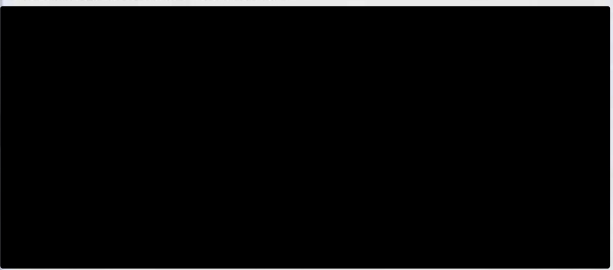
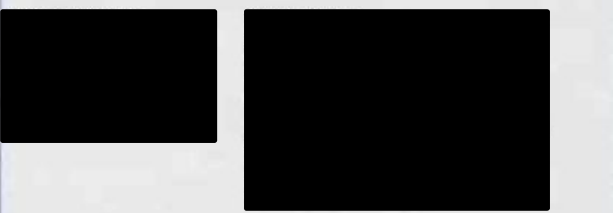
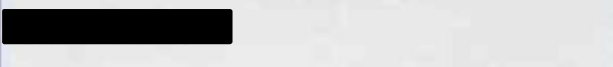

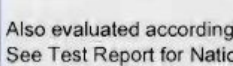
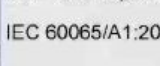
DIFERENÇAS NACIONAIS

Componentes

IEC 60065					
Clause	Requirement + Test		Result - Remark	Verdict	
Component	Manufacturer/ trademark	Type/model	Value / rating	Standard	Approval/ Reference
Alt. use	[REDACTED]	[REDACTED]	94 V-0	UL 94	UL
Alt. use			94 V-0	UL 94	UL
Alt. use			94 V-0	UL 94	UL
Alt. use			94 V-0	UL 94	UL
Alt. use			94 V-0	UL 94	UL
Alt. use			94 V-0	UL 94	UL
Alt. use (Front cabinet only)			HB		
Mains cord M'sia / S'pore / Iran / Indonesia / Vietnam / India / CIS	[REDACTED]	[REDACTED]	2.5A, 250V	EN 50075	VDE
			2.5A, 250V	EN 50075	VDE
			6A, 300V	IEC 60227	VDE
			2.5A, 250V	EN 50075	VDE
			2.5A, 250V	EN 50075	VDE
			6A, 300V	IEC 60227	VDE

DIFERENÇAS NACIONAIS

Componentes

		Ref. Certif. No. 
IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME		SYSTEME CEI D'ACCEPTATION MUTUELLE DE CERTIFICATS D'ESSAIS DES EQUIPEMENTS ELECTRIQUES (IECEE)METHODE OC
CB TEST CERTIFICATE CERTIFICAT D' ESSAI OC		
Product Produit	Power supplies Switching Mode Power Supply	
Name and address of the applicant Nom et adresse du demandeur		
Name and address of the manufacturer Nom et adresse du fabricant		
Name and address of the factory Nom et adresse de l'usine		
Rating and principal characteristics Valeurs nominales et caractéristiques principales		
Trade mark (if any) Marque de fabrique (si elle existe)		
Model/type Ref. Ref. de type		
Additional information (if necessary) Information complémentaire (si nécessaire)	Also evaluated according to EN 60065/A11:2008 See Test Report for National and Group Differences	
A sample of the product was tested and found to be in conformity with Un échantillon de ce produit a été essayé et a été	IEC 60065/A1:2005	

DIFERENÇAS NACIONAIS

Regulamentação para produtos eletromédicos

- Anvisa – RDC n° 32, de 29 de maio de 2007
- Portaria Inmetro n° 350, de 06 de setembro de 2010. - Requisitos de avaliação da conformidade para Equipamentos elétricos sob regime de vigilância sanitária
- Determinação dos requisitos de avaliação da conformidade com base nas normas ABNT



PROGRAMA BRASILEIRO DE AVALIAÇÃO DA CONFORMIDADE



- Portaria Inmetro n° 371



- CB-Scheme Normas IEC

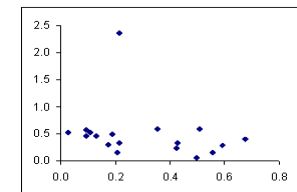
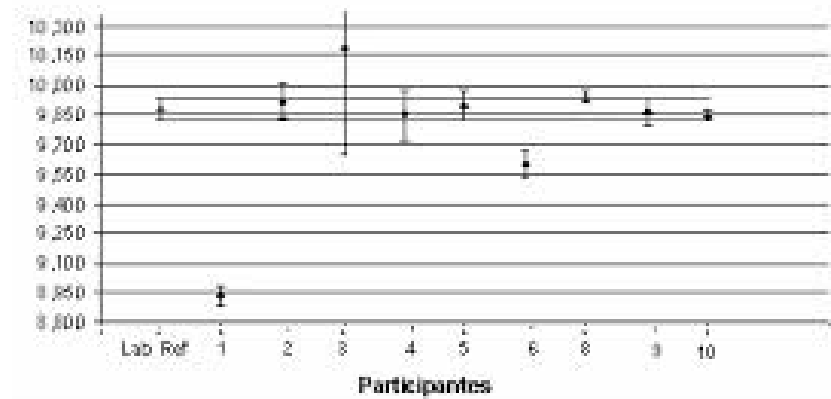
Necessário equacionar os requisitos de avaliação para produtos brasileiros.

Utilização da última versão válida das normas IEC.

LABORATÓRIOS

Tópicos para reflexão:

- **Convergência de resultados entre sistemas**
- **Ensaio de proficiência**



- **Serviços como CTBL pode diferir do escopo de serviços acreditados a Cgcre**



LABELO®
PUCRS



Painel Setorial CB-Scheme

A visão do LABELO sobre o sistema CB-Scheme

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