

# CERTIFICADO DE CONFORMIDADE

## CERTIFICATE OF CONFORMITY

Certificado No. / Certificate No. **UL-BR 20.0714**

Data de Emissão / Date of Issue 12 de Maio de 2020 / May 12, 2020

Página / Page **1/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
*Certificate of conformity valid with pages from 1 to 45*

Fornecedor / Supplier  
(100592254)

**LENOVO TECNOLOGIA (BRASIL) LTDA**  
Estrada Municipal Jose Costa de Mesquita, 200  
Módulos 5 a 10, Chacara Alvorada, Indaiatuba – SP - CEP 13337-200, Brasil  
CNPJ - 07.275.920/0001-61

Produto Certificado / Certified Product

Computador Portátil / Notebook

Família de produto / Product's Family

ThinkPad T450, ThinkPad T460, ThinkPad T490, ThinkPad T14, ThinkPad T14 Gen 1, ThinkPad T14 Gen 2, ThinkPad X250, ThinkPad T460S, ThinkPad X270, ThinkPad E470, ThinkPad E490, ThinkPad L450, ThinkPad L460, ThinkPad L490, ThinkPad L13, ThinkPad L13 Yoga, ThinkPad S2 4th Gen, ThinkPad S2 5th Gen, ThinkPad S2 Yoga 4th Gen, ThinkPad S2 Yoga 5th Gen, ThinkPad T14 Gen 1xxxxx, **ThinkPad E14 Gen 2xxxxx**, ThinkPad L14 Gen 1, ThinkPad T14 Gen 2

Modelo - Tipo / Model - Type

ThinkPad T450, 20CLXXXXXX, 20BW, 20DS, 20F9, 20FA, 20FU, 20FV, 20FN, 20FM, 20HD, 20HE, 20JM, 20JN, 20HM, 20HN, 20K5, 20K6, 20H1, 20H2, 20H3, 20N8, 20N9, X280 model(s) 20KEXXXXX, 20KFXXXXX, T480, model(s) 20L5XXXXX, 20L6XXXXX, E480, model(s) 20KNXXXXX, 20KQXXXXX, 20KRXXXXX, 20M7XXXXX, 20M8XXXXX, 20M5XXXXX, 20M6XXXXX, 20L2XXXXX, 20L1XXXXX, ThinkPad T490xxxxxxxxx, 20N2, 20N3, 20Q9, 20QH, ThinkPad L390 Yoga, ThinkPad L390xxxxxx, ThinkPad S2 Yoga 4th Gen, ThinkPad S2 4th Genxxxxxx, 20NTxxxxxx, 20NUxxxxxx, 20NRxxxxxx, 20NSxxxxxx, 20NWxxxxxx, 20NVxxxxxx, ThinkPad E14xxxxxx, 20RAxxxxxx, 20RBxxxxxx, ThinkPad L13 Yoga, ThinkPad L13, ThinkPad S2 Yoga 5th Genxxxxxx, ThinkPad S2 5th Genxxxxxx, 20R5xxxxxx, 20R6xxxxxx, 20R3xxxxxx, 20R4xxxxxx, 20R8xxxxxx, 20R7xxxxxx, 20NKxxxxxx, 20S0, 20S1, 20S2, 20S3, 20UD, 20UE, 20T6, 20T7, 20U1, 20U2, 20U5, 20U6, 20W0, 20W1, 20VX, 20VY (onde X pode ser 0-9, a-z, A-Z, '-' ou em branco).

Marca comercial / Trademark **Lenovo**

Normas aplicáveis / Applicable standards

**IEC 60950-1: 2005, CISPR 22: 2005 +A1: 2005, CISPR 24: 1997 + A1: 2001 + A2: 2002, IEC 61000-3-2: 2005, IEC 61000-3-3: 2008, IEC 61000-4-2: 2008, IEC 61000-4-3: 2006 +A1: 2010, IEC 61000-4-4: 2012, IEC 61000-4-5: 2009, IEC 61000-4-6: 2008, IEC 61000-4-8: 2009, IEC 61000-4-11: 2010 e Anexo E da Portaria no. 170/2012**

Programa de certificação ou Portaria /  
Certification Program or Decree

**PORTARIA NO. 170/2012 / DECREE NO. 170/2012**  
**PORTARIA NO. 407/2015 / DECREE NO. 407/2015**  
**PORTARIA NO. 48/2017 / DECREE NO. 48/2017**

Relatório de Avaliação e Ensaio /  
Assessment and Test Report #

BR2334, Vol. 1, Sec. 38, 39, 40, 41, 51, 52, 53, 56, 57, 61, 71, 73, 74, 77, 80, 84, 85, 89, 92, 95, 96, 100, 101

Concessão Para / Concession for

Ostentar o Selo de Identificação da Conformidade do Sistema Brasileiro de Avaliação da Conformidade (SBAC) sobre o(s) produto(s) relacionado(s) neste certificado. Bearing the Conformity Identification Seal of the Brazilian System of Evaluation of Conformity (SBAC) on the product covered by this certificate.

Revisão / Revision date  
Validade / Expire date

15 de Setembro de 2021 / September 15, 2021  
11 de Maio de 2023 / May 11, 2023

Pedro Mottola  
Program Owner

**UL do Brasil Certificações**, organismo acreditado pela Coordenação Geral de Acreditação do INMETRO – CGCRE, segundo o registro No.: OCP-0029 confirma que o produto está em conformidade com a(s) Norma(s) e programas ou Portarias acima descritas. *UL do Brasil Certificações*, Certification Body accredited by Coordenação Geral de Acreditação do INMETRO - CGCRE according to the register No.: OCP-0029 confirms that the product is in compliance with the standards and certification Program or Decree above mentioned.



Organismo de Certificação /  
Certification Body

**UL do Brasil Certificações**  
Av. Engenheiro Luís Carlos Berrini, 105 – 24º Andar  
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Data de Emissão / Date of Issue 12 de Maio de 2020 / May 12, 2020

Página / Page **2/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
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**Solicitante / Applicant** **LENOVO TECNOLOGIA (BRASIL) LTDA**  
(100592254) Estrada Municipal Jose Costa de Mesquita, 200  
Módulos 5 a 10, Chácara Alvorada, Indaiatuba - SP  
CEP 13337-200, Brasil

**Fabricante / Manufacture** **LENOVO TECNOLOGIA (BRASIL) LTDA**  
(100592-254) Estrada Municipal Jose Costa de Mesquita, 200  
Módulos 5 a 10, Chácara Alvorada, Indaiatuba - SP  
CEP 13337-200, Brasil

**MARCAÇÃO / MARKING:** Marca do fabricante, modelo e características elétricas.

### CARACTERÍSTICAS NOMINAIS / RATINGS:

2.25 A ou 3.25 A 20 Vdc. Class III ADLX45NAC2A  
20 Vdc, 2.25 A/3.25 A/4.5 A (2.25A for 45 W Adapter / 3.25 A for 65 W Adapter / 4.5A for 90 W Adapter) 2,25 A a 4,5 , 20 Vdc, Class III

Entrada: 100-240V, 1,8 A, 50-60Hz  
Saída: 20V - 3,25 A / 15 V - 3 A / 9 V - 2 A / 5 V - 2 A

**LISTA DE ACESSÓRIOS / LIST OF ACCESSORIES:** N/A

### LISTA DE COMPONENTES CRÍTICOS / LIST OF CRITICAL COMPONENTS:

Componente / Component	Manufacturer/ trademark	Type/model	Technical data	Norma/ Standard
Rating Label	Cymmetrik enterprise	CM-100T-019	(Tested to Durability Test per Sub-clause 1.7.11)	NBR 14136, NBR NM 60884-1
Cord set	Interchangeable	Interchangeable	--	NBR 14136, NBR NM 60884-1
Printed Wiring Board Printed Wiring Board for Wireless Network Card Alternate Printed Wiring Board for WWAN Module	Interchangeable	Interchangeable	Minimum V-1, 105°C	
Flexible Printed Wiring	Interchangeable	Interchangeable	Minimum V-2 or VTM-2. (SELV circuit, no components mounted on it)	
AC/DC adapter	Chicony Power Technology Co., Ltd. / Lenovo	ADLX45NCC2A ADLX45NCC2. (The dot "." in model name can be A to Z, 0 to 9 or blank for marketing purpose only)  ADLX45NCC3A ADLX45NCC3. (The dot "." In model	I/P: 1.3A 100-240Vac 50-60Hz, Cl. II, DC-output: 2.25A 20V  I/P: 1.3A 100-240Vac 50-60Hz, Cl. I,	IEC 60950-1 (ed. 2); am1, EN 60950-1: 2006+A11+A1+ A12:2011, UL 60950-1

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Página / Page **3/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
*Certificate of conformity valid with pages from 1 to 45*

		name can be A to Z, 0 to 9 or blank for marketing purpose only)	DC-output: 2.25A 20V	
		ADLX65NC.2A (The dot "." in model name can be C, G, T, N and P for marketing purpose only)	I/P: 1.8A 100-240V~ 50-60Hz, Cl. II. DC-output: 3.25A 20V	
		ADLX65NC.3A (The dots "." in model name can be C, G, T, N and P for marketing purpose only)	I/P: 1.8A 100-240V~ 50-60Hz, Cl. I DC-output: 3.25A 20V	
		ADLX90NC.2A (The dot "." in model name can be C, G, T, N and P for marketing purpose only)	I/P: 1.2A max. 100-240VAC 50-60Hz, Cl. II DC-output: 4.5A 20V	
		ADLX90NC.3A (The dot "." in model name can be C, G, T, N and P for marketing purpose only)	I/P: 1.2A max. 100-240VAC 50-60Hz, Cl. I DC-output: 4.5A 20V	
	Delta Electronics Inc. / lenovo	ADLX45NDC2 ADLX45NDC2A (Class II, double insulated) and ADLX45NDC3A ADLX45NDC3B (Functional earthing)	I/P: AC 100-240V, 1.2A, 50-60Hz O/P: 20Vdc/2.25A	
	Delta Electronics Inc. / lenovo	ADLX65NDC2A ADLX65NDT2A (Class II equipment) and ADLX65NDC3A ADLX65NDT3A (Class I equipment)	I/P: 100-240Vac, 1.5A, 50-60Hz O/P: 20Vdc, 3.25A	
	Delta Electronics Inc. / Lenovo	ADLX65SDC2A ADP-45TD B	I/P: 100-240Vac, 1.5A, 50-60Hz, Cl. II, O/P: 20Vdc, 3.25A	
Alt. AC/DC	Delta Electronics	ADLX90NDC2A	I/P: AC 100-240V, 1.5A, 50-60Hz,	

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Data de Emissão / Date of Issue 12 de Maio de 2020 / May 12, 2020

Página / Page **4/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
*Certificate of conformity valid with pages from 1 to 45*

adapter	Inc. / lenovo	ADLX90NDT2A (Class II equipment) and	O/P: 20Vdc, 4.5A	IEC 60950-1 (ed. 2); am1, EN 60950-1: 2006+A11+A1+A12:2011, UL 60950-1
	Delta Electronics Inc. / lenovo	ADLX90NDC3A ADLX90NDT3A (Class I equipment) ADP-65FD B (Class I equip.) ADP-90XD B	I/P: 100-240Vac, 1.5A, 50-60Hz O/P: 20Vdc, 3.25A	
	Lite-On Technology Corporation / Lenovo	ADLX65NDC3B ADLX65NDT3B (Class I equip.) ADLX65NDC2B (Class II equip.) ADP-65XB A, ADLX65SDC2A	I/P: AC 100-240V, 1.3A, 50-60Hz, Cl. II O/P: 20Vdc, 2.25A  I/P: AC 100-240V, 1.3A, 50-60Hz, Cl. I	
		ADLX45NL*2* (* = A-Z, 0-9 or blank)	O/P: 20Vdc, 2.25A	
		ADLX45NLC3* (* = A-Z, 0-9 or blank)	I/P: AC 100-240V, 50-60Hz, 1.8A, Cl. II O/P: 20Vdc, 3.25A	
		ADLX65NL*3* (* can be any character or blank)	I/P: AC 100-240V, 50-60Hz, 1.8A, Cl. I O/P: 20Vdc, 3.25A	
		ADLX65SLC2A	I/P: AC 100-240V, 2.0A, 50-60Hz, Cl. II O/P: 20Vdc, 3.25A	
		ADLX90NL*2* (* can be any character or blank)	I/P: AC 100-240V, 50-60Hz, 1.5A, Cl. II O/P: 20Vdc, 4.5A	
		ADLX90NL*3* (* can be any character or blank)	I/P: AC 100-240V, 50-60Hz, 1.5A, Cl. I O/P: 20Vdc, 4.5A	
		ADLX45DLC2* (The * can be any character or blank), PA-1450-17XX (The X can be any character or blank)	I/P: AC 100-240V, 50-60Hz, 1.8A, cl.I	

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Página / Page **5/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
*Certificate of conformity valid with pages from 1 to 45*

		ADLX45DLC3* (The * can be any character or blank), PA-1450-18XX (The X can be any character or blank)  PA-1650-72  PA-1450-12XX (X=A-Z, 0-9 or blank), ADLX45NLC3* (*=A-Z, 0-9 or blank except for ADLX45NLC3A)	O/P: 20Vdc, 3.25A  I/P: 1.3A, 100-240Vac, 50-60Hz, Class I; O/P: 2.25A, 20Vdc, Tma: 40°C	
AC/DC adapter (Optional)	Acbel Polytech Inc.	2) ADLX45NCC3A  ADLX45NAC2A  ADLX45NAC3A	I/P: 1.2A, 100-240Vac, 50-60Hz, Class II; O/P: 2.25A, 20Vdc ; 45W MAX. Tma: 40°C, L.P.S.	IEC 60950-1: 2005+A1+A2; EN 60950-1: 2006+A11:2009+A1:2010+A12 : 2011+A2:2013;
AC/DC adapter (Alternate)	Delta Electronics Inc.	ADLX45YDC3A	I/P: 100-240V~, 1.2A, 50/60Hz, O/P: 20Vdc/2.25A, 15Vdc/3A, 9Vdc/2A, 5Vdc/2A, Class I. (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950 1:2006+A11+A1+ A12+A2, UL 60950-1
AC/DC adapter (Alternate)	Lite-On Technology Corporation	ADLX45YLC2A	I/P: AC 100-240V, 1.3A 50-60Hz - O/P: DC 20V; 2.25A, 15V; 3A, 9V; 2A, 5V; 2A Class II. (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1
AC/DC adapter (Alternate)	Delta Electronics Inc.	ADLX45YDC2A	I/P: 100-240V~, 1.2A, 50-60Hz, O/P: 20Vdc/2.25A, 15Vdc/3A, 9Vdc/2A, 5Vdc/2A, Class II. (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1
AC/DC adapter (Alternate)	Lite-On Technology Corporation	ADLX45YLC3A	I/P: AC 100-240V, 1.3A 50-60Hz O/P: DC 20V; 2.25A, 15V; 3A, 9V; 2A, 5V; 2A Class I. (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950- 1:2006+A11+A1+ A12+A2, UL 60950-1
AC/DC adapter (Alternate)	Chicony Power Technology Co., Ltd.	ADLX45YCC3A	I/P: 100-240V~, 50-60Hz, 1.3A DC- output: 2A 5V or 2A 9V or 3A 15V or 2.25A 20V, Cl. I. (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950- 1:2006+A11+A1+ A12+A2, UL 60950-1

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**Página / Page** **6/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
**Certificate of conformity valid with pages from 1 to 45**

AC/DC adapter (Alternate)	Chicony Power Technology Co., Ltd.	ADLX45YAC2A	I/P: AC 100-240V, 50-60Hz, 1.2A O/P: DC 5V/ 2.0A or 9V/ 2.0A or 15V/ 3.0A or 20V/ 2.25A, Cl. II. (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1+ A12+A2, UL 60950-1
AC/DC adapter (Alternate)	Acbel Polytech Inc.	ADLX45YAC3A	I/P: AC 100-240V, 50-60Hz, 1.2 <sup>a</sup> - O/P: DC 5V/ 2.0A or 9V/ 2.0A or 15V/ 3.0A or 20V/ 2.25A, Cl. I. (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1
AC/DC adapter (Alternate)	Delta Electronics Inc.	ADLX65YDC3A	I/P: AC 100-240V, 1.8A 50-60Hz -- O/P: DC 20V; 3.25A, DC 15V; 3A, DC 9V; 2A, DC 5V; 2A. Class II. (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1
AC/DC adapter (Alternate)	Delta Electronics Inc.	ADLX65YDC2A	I/P: AC 100-240V, 1.8A 50-60Hz -- O/P: DC 20V; 3.25A, DC 15V; 3A, DC 9V; 2A, DC 5V; 2A. Class II. (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1
AC/DC adapter (Alternate)	Lite-On Technology Corporation	ADLX65YLC3A	I/P: AC 100-240V; 1.8A; 50 60Hz O/P: DC 20V; 3.25A, 15V; 3A, 9V; 2A, 5V; 2A . Class I. (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1
AC/DC adapter (Alternate)	Lite-On Technology Corporation	ADLX65YLC2A	I/P: AC 100-240V; 1.8A; 50-60Hz - O/P: DC 20V; 3.25A, 15V; 3A, 9V; 2A, 5V; 2A .Class II. (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1
AC/DC adapter (Alternate)	Chicony Power Technology Co., Ltd.	ADLX65YCC3A	I/P: 100-240V~, 50-60Hz, 1.8A DC- output: 2A 5V or 2A 9V or 3A 15V or 3.25A 20V, Cl. I. (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1
AC/DC adapter (Alternate)	Chicony Power Technology Co., Ltd.	ADLX65YCC2A	I/P: 100-240V~, 50-60Hz, 1.8A. DC- output: 2A 5V or 2A 9V or 3A 15V or 3.25A 20V, Cl. II. (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1

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**Página / Page** **7/45**

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**Certificate of conformity valid with pages from 1 to 45**

AC/DC adapter (Alternate)	Chicony Power Technology Co., Ltd.	ADLX65YAC3A	I/P: AC 100-240V; 50-60Hz; 1.8A - O/P: DC 5V/2A, 9V/2A, 15V/ 3A, 20V/3.25A, Class I. (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1
AC/DC adapter (Alternate)	Acbel Polytech Inc.	ADLX65YAC2A	I/P: AC 100-240V; 50-60Hz; 1.8A - O/P: DC 5V/2A, 9V/2A, 15V/ 3A, 20V/3.25A Class II. (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1
Enclosure - for LCD cover	Toray Industries Inc.  E I DUPONT DE NEMOURS & Co Inc.  Teijin Limited Resin And	C23452S TCP1206-G50 A695H  HTNFR55G50NHLW  GXV-35(vv)(#U), (vv) - Indicates 40 GXV-3545WI	V-0, min.0.28 mm Thick V-0 min., 0.8mm thickness min., 65 °C min.  V-0, min.0.4 mm thick V-0, min. 0.5 mm thick V-0, Minimum 1.25mm thick	UL 94
- for LCD bezel	Plastic  Teijin Limited Resin And Plastic Mitsubishi Engineering- Plastics Corp. Ecotech Polymers Inc	through 50 (#U) - Optional suffix except for letter U  GXV-3540U(#), (#) - Suffix optional  MB1700  PCABSFR(J)e, (J) - Denotes a three digit number from 701 to	V-0, min. 0.6 mm thick  V-0, min. 0.81mm thick V-0, Minimum 0.85mm thick V-0, min. 0.80 mm thick	UL 94
- for LCD bezel (for touch panel only)	Teijin Limited Resin And  Bayer Materialscience AG  Plastic Inter- changeable	799 indicative of customer code. PC-(m1)28(m1)(#) (#) - Suffix optional; (m1) - is replaced by a digit 0 through 9.) Inter-changeable  FR3002 + (z) ((z) – Material designation and color code may be followed by up to three	V-0 , min. 0.40 mm  V-0, 1.8 mm thickness min., 75°C min.  Glass  V-0, min. 1.0mm thick	UL 94; UL 746C

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**Página / Page** **8/45**

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- for top side around keyboard	Mitsubishi Engineering-Plastics Corp.	letters and/or three numbers (does not include grades which are separately recognized with above material designation and suffix);	Al-Mg alloy, 0.8 mm thick.	
	Waffer Catcher	+ - Material designations may be followed by a six digit numerical code denoting color)		
- for bottom	Foxconn JuRong Huaye (JY)	TMB1615	V-0, min.0.4 mm thick	
	Mitac CPM Ka shui E I DUPONT	AZ91D HTNFR55G50NHL		
	Samsung SDI Co Ltd	GC 1150(+)(RR30) ((+) - May be replaced by one, two, or three numbers and/or letter(s); RR30 - 30% Recycled Material.)	V-0, 1.8 mm thickness min., 60°C min.	
- for top side around keyboard	Mitsubishi Engineering-Plastics Corp.	TMB1615+ (+- Suffix optional, exceptions: The following cannot be used as optional suffixes: "T" for grade 2030, "A" for 1501, 1502, 1511, 1521 & 2502, "N" for NXG5050, NXG5030, NXG5501, & CGF- (v)(u),"S1" for F20- 54.)	V-0, min. 1.0mm thick	UL 94
	Waffer Catcher	AZ91D	Al-Mg alloy, 0.8 mm thick.	--
	Foxconn	AZ91D		
	JuRong Huaye (JY)	AZ91D		
	Mitac	AZ91D		
	CPM	AZ91D		
	Ka shui	AZ91D		

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41-IC-F0033 rev 12.0



# CERTIFICADO DE CONFORMIDADE

## CERTIFICATE OF CONFORMITY

Certificado No. / Certificate No. **UL-BR 20.0714**

Data de Emissão / Date of Issue 12 de Maio de 2020 / May 12, 2020

Página / Page **9/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
*Certificate of conformity valid with pages from 1 to 45*

Enclosure (For Top side around keyboard)	MITSUBISHI ENGINEERING G-PLASTICS CORP	MB1800+, MB180(x)+ ((x) Represents a digit from 19, incl.+ Suffix optional, exceptions: The following cannot be used as optional suffixes: "T" for grade 2030, "A" for 1501, 1502, 1511, 1521 & 2502, "N" for NXG5050, NXG5030, NXG5501, & CGF(v)(u), "S1" for F2054, "R" for grade MB2211, "V" for grade S3000+(f1), S3001+(f1), S3003+(f1).)	Plastic, V-0 min., 1.0mm thickness min., 60 °C min	UL 94
- for bottom case	E I DUPONT DE NEMOURS & Co Inc.	HTNFR55G50NHL W HTNFR55G50NHLWSF	V-0, min.0.4 mm thick V-0, thickness 0.75mm min., 65°C	UL 94
TFT-LCD panel (LED backlight)	Inter- changeable  Au Optonics Corp  AUO	Inter-changeable  B125XTNZZZ  B140HAK01.0	14.0", Glass is of min. 0.34 mm thickness. 12.5", Glass is of min. 0.34 mm thickness.  12.5 inch TFT- LCD with LED Backlight design	--
LCD Panel (LED backlight)	AU Optonics Corporation LG Display Co., Ltd.  LG Display Co., Ltd.  Samsung Display Co., Ltd	B140XTN02.E  LP140WF6  LP140WH8  LTN140AT35-401  N140HCA, N140HCA-EAB, N140BGA, N140BGA-EA3	14.0 inch (LED backlight), Glass is of min. 0.34mm thickness  14.0" TFT-LCD	Applicable parts of IEC 60950-1
Alt. LCD Panel (LED backlight)	Samsung Display Co., Ltd InnoLux Interchangea ble	LTN140HL05-401  N140HCE Interchangeable	14.0 inch (LED backlight), Glass is of min. 0.34mm thickness	
HDD (optional)	Seagate  HGST Japan Ltd  Toshiba Corp or equivalent	ST3 or 3.5 Series or ST with additional suffixes; ST9 or 2.5 Series or ST with additional suffixes or equivalent  TT5SAE may have suffix  MQ may have suffix	5Vdc/12Vdc, 1.5A max. 5Vdc, 1.5A max. 5Vdc/12Vdc, 1.5A max. 5Vdc, 1.5A max.  (5Vdc, 0.7A)  (5Vdc, 1.4A)	IEC 60950-1: 2005 - UL 60950-1

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84-IC-F0033 rev 12.0

# CERTIFICADO DE CONFORMIDADE

## CERTIFICATE OF CONFORMITY

**Certificado No. / Certificate No.** **UL-BR 20.0714**

**Data de Emissão / Date of Issue** 12 de Maio de 2020 / May 12, 2020

**Página / Page** **10/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
**Certificate of conformity valid with pages from 1 to 45**

HDD (Optional) Alternate	Seagate Singapore International Headquarters Pte Ltd.  Western Digital Technologies Inc  HGST Japan Ltd.  Toshiba Corp  Interchangeable	ST320LT012 ST500LT012 ST320LT007  WD may have suffix  TS5SAF may have suffix TT7SAE may have suffix  HDD2 may have suffix  Interchangeable	(5Vdc, 0.55A) (5Vdc, 0.45A)  5Vdc, 1.5A  5Vdc, 0.7A  5Vdc  Max. 1.5/1.0A, 5V/12Vdc	
SSD (optional)	Interchangeable  Samsung Electronics Co Ltd.  Micron Technology Inc  Toshiba Corp Semiconductor & Storage  Intel Corp Lite-on technology corporation	Interchangeable  MZ-7 may have suffix MZ-N may have suffix  REALSSD C400 2.5 CTxxxM500SSD1  THNSNF128GC SS  SSDSC2 may PX-xxxGCSxxxxxx	3.3Vdc or 5Vdc  (5Vdc, 0.75A) 3.3Vdc, 3.5A max.  (5Vdc, 2.0A)  (5Vdc)  (5Vdc)  5Vdc, 2.0A max.	EN 60950-1: 2006+A11+A1+ A12, UL 60950-1 EN 60950-1: 2006+A11+A1+ A12, UL 60950-1 IEC 60950-1 (ed.2);am1, UL 60950-1
SSHD (optional) (Alternate)	Seagate Technology Inc.  Interchangeable	ST3 with additional suffix, 3.5 Series  ST9 with additional suffix, 2.5 Series  Interchangeable	5/12Vdc, 1.5 A max./ 1.5 A max.	IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A 1+A12+A2, UL 60950-1
Li-ion battery pack (building-in) (optional)	Sanyo Energy (Suzhou) Co. Ltd. / LENOVO  Sony Taiwan Ltd. / lenovo  LG Chemical	45N1108 45N1110 45N1112 45N1116 ASM P/N 45N1112 45N1712 45N1118	11.1Vdc, 2.09Ah, 24Wh or 11.1Vdc, 2.14Ah, 24Wh  11.1Vdc, 2.09Ah, 24Wh  11.4Vdc, 2.06Ah, 24Wh  11.4Vdc, 2.06Ah,	IEC 60950-1 (ed. 2); am1

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41-IC-F0033 rev 12.0

# CERTIFICADO DE CONFORMIDADE

## CERTIFICATE OF CONFORMITY

**Certificado No. / Certificate No.** UL-BR 20.0714

**Data de Emissão / Date of Issue** 12 de Maio de 2020 / May 12, 2020

**Página / Page** 11/45

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
*Certificate of conformity valid with pages from 1 to 45*

	Ltd. / Lenovo	SB10K97576	24Wh NOM 11.55Vdc; Typ. 2080mAh/24Wh; Min. 1970mAh/22.75Wh	
	Simplo Technology			
Alt. Building-in Li-ion battery pack	LG Chem, Ltd	SB10K97577	11.4Vdc, 2.10Ah / 24Wh	EC 60950-1(ed.2);am1;am2, EN 60950-1:2006+A11+A1+A12+A2, IEC 62133(ed.2), UL 60950-1, UL 2054
	Simplo Technology Co Ltd	SB10K97578		
External Li-ion battery pack	Sanyo Energy (Suzhou) Co. Ltd. / Lenovo	45N1124	11.1V, 2090 (Typ.) / 2040 (Min.)mAh/ 24Wh	IEC 60950-1:2005+A1; EN 60950-1: 2006+A11: 2009+A1:2010+A12:2011; UL 60950-1; UL 2054
		45N1128		
	Sanyo Energy (Suzhou) Co. Ltd. / Lenovo	45N1134	10.8V, 4400 (Typ.) / 4300 (Min.) mAh/ 48Wh	
	LG Chemical Ltd. / Lenovo	ASM P/N 45N1126	10.8Vdc, 6600 (Typ.) / 6500 (Min.) mAh/72Wh	
		ASM P/N 45N1130		
	Simplo Technology Co. Ltd. / Lenovo	ASM P/N 45N1136	11.4Vdc, 2.06Ah, 24Wh	
	Celxpert Energy Corp	45N1132	10.8Vdc, 4.4Ah, 48Wh	
	Panasonic Group, Sanyo Electric Co., Ltd. (Lenovo)	SB10K97579	11.22Vdc, 6.34Ah, 72Wh 10.8Vdc or 11.1Vdc, 4.4Ah, 47Wh or 47.52Wh or 48Wh	
		SB10K97580	11.55Vdc, Typ. 2080mAh/24Wh, Min. 1970mAh/22.75Wh	
		SB10K97581		
Alt. External Lion battery pack	Sanyo Energy (Suzhou) Co Ltd	SB10K97582	10.8Vdc, Typ. 4400mAh, 48Wh;	IEC 60950-1(ed.2);am1; am2, EN 60950-1: 2006+A11+A1+A12+A2,  IEC62133(ed.2), UL 60950-1 (investigated with UL 2054)
		SB10K97584	Min. 4116mAh, 44.45Wh	
			10.8Vdc, Typ. 6600mAh, 72Wh;	
	LG Chem, Ltd.	SB10K97583 SB10K97585	Min. 6272mAh; 67.73Wh  10.8Vdc, 48Wh, 4400mAh 11.25Vdc, 6.32Ah, 72Wh	

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41-IC-F0033 rev 12.0



# CERTIFICADO DE CONFORMIDADE

## CERTIFICATE OF CONFORMITY

Certificado No. / Certificate No. **UL-BR 20.0714**

Data de Emissão / Date of Issue 12 de Maio de 2020 / May 12, 2020

Página / Page **13/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
*Certificate of conformity valid with pages from 1 to 45*

DC fan for CPU	<p>Toshiba Home Technology Corp.</p> <p>Asia Vital Components Co., Ltd.</p> <p>Panasonic System Networks Kyushu Co., Ltd</p> <p>Delta Electronics, Inc.</p>	<p>M-244C-XX</p> <p>M-240C-XX (XX: Rev. No. for modification not related to safety aspects, blank or any numbers (2 digits))</p> <p>M-252C-XX (where suffix "XX" represents numbers "0" through "9" or blank)</p> <p>BATA0607R5HV (V=ABCD where A,B,C,D may be A-Z, 0-9 or "-")</p> <p>BAZB0607R5HV (V=ABCD where A,B,C,D may be A-Z, 0-9 or "-")</p> <p>M-238C-1</p> <p>UDQFWYR02BCM</p> <p>UDQFRYR01BCM</p> <p>KSB0705HCA02 XXXXXX (X stands for 0-9, A-Z, - or blank)</p> <p>BAZD0707Z5HV (Z=A, B, C, G, R, S or T ; V=ABCD where A, B, C, D may be A-Z, 0-9 or "-") (UL: BAZD0707R5H(V) (where (V) may be XXXX, where X may be A through Z, 0 through 9 or "-".)</p> <p>ND75C16XXXXXXXXXXXX</p> <p>ND75C14XXXXXXXXXXXX</p> <p>(X stands for A-Z, 0-9, - or blank for marketing purpose only.)</p>	<p>5Vdc, 0.32A, 2 CFM min. for discrete main boards, 2.2 CFM min. for UMA main board</p> <p>5Vdc, 0.35A</p> <p>5Vdc, 0.50A, 2.771 CFM min. for discrete main boards, 2.734 CFM min. for UMA main board</p> <p>5Vdc, 0.50A, 2.651 CFM min. for UMA main board</p> <p>5Vdc, 0.29A</p> <p>5Vdc, 0.28A, 2.3 CFM min.</p> <p>5Vdc, 0.50A max., 2.84 CFM min.</p> <p>5Vdc, 0.45A max., 3.47CFM min</p>	<p>IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1+ A12+A2, UL 507</p>
Alt. DC fan for CPU	<p>Sunonwealth Electric Machine Industry Co., Ltd.</p>	<p>EF50050S1-C42Z (Z stands for 30 characters. Each character stands for one of the following signs: 0-9, A-Z, (, ), ., /, - or blank)</p>	<p>5Vdc, 0.45A, 2.6 CFM min. for UMA main board</p> <p>5Vdc, 0.45A, 2.4 CFM min. for UMA</p>	<p>IEC 60950-1: 2005, Am.1 UL507,</p>

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41-IC-F0033 rev 12.0



# CERTIFICADO DE CONFORMIDADE

## CERTIFICATE OF CONFORMITY

Certificado No. / Certificate No. **UL-BR 20.0714**

Data de Emissão / Date of Issue 12 de Maio de 2020 / May 12, 2020

Página / Page **14/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
*Certificate of conformity valid with pages from 1 to 45*

Delta Electronics, Inc.	EF50050S1-C3Z (Z stands for 15 characters. Each character stands for one of the following signs: 0-9, A-Z, (, ), ., /, - or blank)	main board
	EG50050S1-CA3Z (Z stands for 30 characters. Each character stands for one of the following signs: 0-9, A-Z, (, ), ., /, - or blank for marketing purpose only.)	5Vdc, 0.4A max., 1.15 CFM min. for UMA main board
	KDB0505HCA07X XXXXX (X stands for 0-9, A-Z, - or blank)	5Vdc, 0.50A, 2.539 CFM min. for discrete main board
	BAZA0607R5HV BAZA0807R5HV (V=ABCD where A,B,C,D may be A-Z,0-9 or "-") /, - or blank)	5Vdc, 0.45A, 2.7 CFM min. for discrete main board
Sunonwealth Electric Machine Industry Co., Ltd.	EF50050S1-C45Z	
	BAZC0606R5HP005	5Vdc, 0.45A, 2.5
Sunonwealth Electric Machine Industry Co., Ltd.	EF50050S1-C25Z (Z stands for 15 characters. Each character stands for one of the following signs: 0-9, A-Z, (, ), ., /, - or blank)	
	EF50050S1-C6Z (Z stands for 30 characters. Each character stands for one of the following signs: 0-9, A-Z, (, ), ., /, - or blank)	
Delta Electronics,	KDB05105HBA04 XXXXX (X stands for 0-9, A-Z, - or	CFM min. for discrete main board
	ND75C02 may have suffix	
	ND75C06XXXXXXXX XXX (X stands for A-Z, 0-9, - or blank) (UL: ND75C06(Y11) the number	5Vdc, 0.40A max., 0.90 CFM min. for

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41-IC-F0033 rev 12.0

# CERTIFICADO DE CONFORMIDADE

## CERTIFICATE OF CONFORMITY

Certificado No. / Certificate No. **UL-BR 20.0714**

Data de Emissão / Date of Issue 12 de Maio de 2020 / May 12, 2020

Página / Page **15/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
*Certificate of conformity valid with pages from 1 to 45*

	Inc.  Sunonwea lth Electric Machine Industry Co., Ltd.	after Y represents digit, each digit may be A rough 9, "-" or blank.)  EG50050S1-C9Z (Z stands for 30 characters. Each character stands for one of the following signs: 0-9, A- Z, (, ), ., /, - or blank) (UL: EG50050S1- C9(Y) (where (Y) stands for 30 variables, each variable may be A through Z, 0	discrete main board	
	Toshiba Home Technology Corp.	M-256C-XX (XX : Rev. No. for modification not related to safety aspects, blank or any numbers (2 digits))	5Vdc, 0.29A, 1.8CFM	IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1+ A12+A2, UL 507
LPS protector IC for USB ports	Texas Instruments, Inc.  Global Mixed- mode  Technology Inc.  Texas Instruments, Inc.  Pericom Semi- conductor Corporation PSE	TPS2069DGN  G548A1, G548A2, G548B1, G548B2, G548C1, G548C2, G548D1, G548D2 TPS2069C, followed by DBV, DGK or DGN, may be followed by additional letters and numbers.  TPS2543, TPS2544, TPS2545 and TPS2546.  PI5USB2543ZHE PI5USB25xyZHEz, where xx is 44 or 46 and y is blank or A, ZH is packaging type, E is Pb-free, and z is blank for bulk	2.7-5.5Vdc, continuous rating: 1.5A, current limit: 2.6A 3.0-5.5Vdc, current rating: 2.0A, 1.5A, 1.0A and 0.75A, protection current rating: 2.8A, 2.1A, 1.4A and 1.2A 4.5Vdc to 5.5Vdc, continuous rating: 1.5A, current limit: 2.7A  4.5-5.5Vdc, continuous rating: 2.5A, current limit: 3.1A - 5Vdc +/- 10%, current limit:250mA to 2.5A  4.5 - 5.5 Vdc, Continuous Rating: 30 mA to 2.5 A, Current Limit: 100 mA to 3.18 A	IEC 60950-1: 2005, Am.1

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41-IC-F0033 rev 12.0

# CERTIFICADO DE CONFORMIDADE

## CERTIFICATE OF CONFORMITY

**Certificado No. / Certificate No.** **UL-BR 20.0714**

**Data de Emissão / Date of Issue** 12 de Maio de 2020 / May 12, 2020

**Página / Page** **16/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
*Certificate of conformity valid with pages from 1 to 45*

LPS protector IC for Mini Display port	Texas Instruments, Inc.	TPS2530 may be followed by DBV, may be followed by R or T	2.7Vdc to 5.5Vdc, continuous rating: 500mA, current limit: 1.3A	IEC 60950-1: 2005+A1; UL Subject 2367
	On Semiconductor France SAS	NCP380xSN05AA T1G Where x = L or H,  TPS204.. and TPS205.. (The first "." can be any number from 1 to 4 and defines the number of power switches internal to the device. The second is a revision letter for that particular family. Alphabetic characters representing device package options may follow model number)	2.5Vdc to 5.5Vdc, continuous rating: 0.5A, current limit: 0.7A 0.5A per output channel 2.7- 5.5Vdc, Cl. III, SELV	
	Global Mixed- mode Technology Inc	G5250M1, G5250L2, G5250L1, G5250M2	3.0-5.5Vdc, Operational Current Rating per output: 1.0A, Overcurrent Protection Current Rating per output: 1.4A	
Power Distribution Switch (U6: JUSB1, JUSB2) (Located on Mainboard)	Global Mixedmode Technology Inc.	G547I2	3 A max., 3.0-5.5 Vdc; Class III. SELV	IEC 60950-1: 2005; UL Subject 2367
	Silergy Technology	SY6288xyyy (x=A, B, C, D or E; y= 0-9,A-Z or blank)	3.7 A max., 2.5-5.5Vdc; Class III. SELV	
Power Distribution Switch (UT1) (Located on VGA & Power Button Board)	ANPEC Electronics Corp.	APL3517 series	0.5 A, 2.7-5.25 Vdc; Class III. SELV	IEC 60950-1: 2005+A1; UL Subject 2367
Power Distribution Switch (UT1) (Located on VGA & Power Button Board)	Global Mixed- Mode Technology Inc	G5250Q1T73U	0.5 A, 2.7-5.25 Vdc; Class III. SELV	IEC 60950-1: 2005+A1; UL Subject 2367
Power Distribution switch for USB3.0, USB2.0 and HDMI ports)	Global Mixed- Mode Technology Inc (GMT)	G5260ARE1U G524B2T11U	4.5-5.5 Vdc, output Continuous rating: 0.2 A, output current limit: 0.3-0.5 A per output channel, Cl.III, SELV	IEC 60950-1: 2005+Am1+Am 2, EN 60950-1:2006+Am11+ Am1+Am12+Am2, UL 2367

**Organismo de Certificação /**  
**Certification Body**

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84-IC-F0033 rev 12.0

# CERTIFICADO DE CONFORMIDADE

## CERTIFICATE OF CONFORMITY

**Certificado No. / Certificate No.** **UL-BR 20.0714**

**Data de Emissão / Date of Issue** 12 de Maio de 2020 / May 12, 2020

**Página / Page** **17/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
**Certificate of conformity valid with pages from 1 to 45**

Power Distribution Swith (U187) for USB Type-C port use	Texas Instruments Incorporated	TPS65982	Inputs: VIN_3V3 = 3.3Vdc; PP_EXT = 4.5 - 22Vdc; PP_HV = 4.5 - 22Vdc; PP_5V0 = 4.75 - 5.5Vdc; PP_CC1 = 2.95 - 5.5Vdc; PP_CC2 = 2.95 - 5.5Vdc; Cl. III - Outputs: PP_EXT = 4.5 - 22Vdc, 4.301A max; PP_HV = 4.5 - 22Vdc, 4.306A max; PP_5V0 = 4.75 - 5.5Vdc, 3.69A max; PP_CC1 = 2.95 - 5.5Vdc, 0.9A max; PP_CC2 = 2.95 - 5.5Vdc, 0.9A max	IEC 60950-1 (ed.2); am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, UL 2367
Power Distribution Swith (U13) for USB3.0 ports	Global Mixedmode Technology Inc.	G517AL series	2.7-5.5Vdc, Operational Current Rating per output: 2.1A, Overcurrent Protection Current Rating per output: 2.2-3.0A	IEC 60950-1: 2005+A1+A2
Power Distribution Swith (U53, U88, U120) For USB port use	Texas Instruments Incorporated	TPS2069 may be followed by other characters that do not impact the safety feature of the device.	Input Voltage: 2.7Vdc - 5.5Vdc; Output Continuous Rating: 1.5 A; Output Current Limit: 3.9 A	IEC 60950-1 (ed.2); am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, UL 2367
Alt. Power Distribution Swith (U53, U88, U120) for USB port use	Texas Instruments Incorporated	TPS2546 Additional suffixes after the model number designate the type of integrated circuit package, integrated circuit lead types or other features that are considered not to affect the functionality of the device.	Input Voltage = 4.5Vdc to 5.5Vdc; Output Continuous Rating = 2.5A; Output Current Limit = 3.1A	IEC 60950-1 (ed.2); am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, UL 2367
Supplementary Protector (U100) for DP Alternate	On Semiconductor France Sas	NCP380HSN05 AAT1G	2.5 - 5.5V, Output Continuous Rating 0.5A, Output Current Limit 0.7A.	
	Texas Instruments Inc.	TPS205 may have suffix TPS2530	2.7 - 5.5V, 0.5A. (The output of the device provides limited power sources in accordance with clause 2.5 EN 60950-1/A1:2010 Annex CC.)	
	K.K. Tyco Electronics Raychem	TPS2541ARTE may have suffix TPS2069C may have suffix	4.5 - 5.5Vdc, 2.7A. (The output of the device provides	
		nanoSMDC150	6Vdc, 1.5A	
Supplementary Protector (U88) for USB (J34)	Pericom Technology (Shanghai) Co.,LTD	PI5USB2546 may have suffix	4.5 - 5.5V, output continuous 2.5A, output limit 3.18A.	UL2367, IEC60950-1, 2nd; am1 + am2

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41-IC-F0033 rev 12.0

# CERTIFICADO DE CONFORMIDADE

## CERTIFICATE OF CONFORMITY

**Certificado No. / Certificate No.** **UL-BR 20.0714**

**Data de Emissão / Date of Issue** 12 de Maio de 2020 / May 12, 2020

**Página / Page** **18/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
*Certificate of conformity valid with pages from 1 to 45*

Supplementary Protector (U53, U2 on Subcard) for USB (J33, J2 on Subcard) Alternate	Global Mixedmode Technology Inc.	G524C may have suffix	2.7 - 5.5V, output continuous 1.6A, output limit 2.3A.	IEC60950-1, 2nd; am1 + am2
Supplementary Protector (U110) for HDMI (J42)	Texas Instruments Inc	TPS2553 may have suffix	2.5 - 6.5V, output continuous 1.5A, output limit 1.7A.	UL2367, IEC60950-1, 2nd; am1 + am2
Supplementary Protector (U110) for HDMI (J42) Alternate	Global Mixedmode Technology Inc.	G517AL may have suffix	2.7 - 5.5V, output continuous 2.15A, output limit 2.75A.	UL2367, IEC60950-1, 2nd; am1 + am2
Polyswitch (LPS protector for VGA port)	Polytronics Technology Corp.	nanoSMDC150xx xxxxxxxxxxxxxxxx xx (x=0-9, A-Z, "-", ".", "-" or blank)	6Vdc, 1.5A	EN 60730-1, UL 1434
Speakers (optional)	Interchangeable	Interchangeable	Each rated 4Ω, 2.5W max. (two provided) 2 provided, each 8ohm, 1W (typical)	
PCBs	Interchangeable	Interchangeable	V-1 min., 105C	UL 796
ThinkPad Basic Dock (Optional) ThinkPad Pro Dock (Optional) ThinkPad Ultra Dock (Optional) (Dock for UMA used only)	Universal Global Scientific Universal Global Scientific Universal Global Scientific	40A0 40A1 40A2	20Vdc, 3.25A 20Vdc, 3.25A 20Vdc, 4.5A	IEC 60950-1 (ed. 2); am1
ThinkPad WiGig Dock (Optional)	Inventec Corporation	W123	DC 20V; 2.25A	IEC 60950-1:2005+A1+A2
Enclosure: Keyboard Bezel	Interchangeable	Mg Alloy AZ91Z Mg Alloy AZ91D	Magnesium alloy. (Tested to Flame Test per Sub-clause A.2)	
Enclosure: Base Cover	Interchangeable	Mg Alloy AZ91Z Mg Alloy AZ91D	Magnesium alloy. (Tested to Flame Test per Sub-clause A.2)	
Enclosure: Front Metal Bezel	SUS304 1/2H	SUS	--	
Enclosure: Front Sheet Bezel	Teijin Chemicals Ltd	PC-3280	V-0, Minimum 0.45mm thick	
Enclosure: Front Sheet Bezel	Shenzhen Teesun Technology Co. Ltd.	PC-FR 1363	Minimum 0.45 mm thick. (Conducted Glow-wire Flammability Test)	-

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# CERTIFICADO DE CONFORMIDADE

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**Data de Emissão / Date of Issue** 12 de Maio de 2020 / May 12, 2020

**Página / Page** **19/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
*Certificate of conformity valid with pages from 1 to 45*

Keyboard	Chicony Electronics Co Ltd  Lite-On Technology Corp	CSXXX-XX (X = 0-9 or A-Z)  CS13xy (x = Blank or X or T for size difference and key layout difference; y= Blank or BL for Back light)  THXX-XXXX (X can be 0-9, A-Z, a-z or blank)	Minimum HB.	
Heatsink	--	--	Aluminium, copper or copper alloy	
Internal Wiring	Interchangeable	Interchangeable	PVC, TFE, PTFE, FEP, polychloroprene, polyimide, or marked VW-1.	
Connectors and Receptacles for Several provided four USB ports, LAN port, Display port, VGA (D-sub) Earphone port, Media Card port and Express Card port. Alternate	Interchangeable	Interchangeable	Copper Alloy Pins housed in bodies of Plastic, V-1 or Better.	
Fuse (F25)	Panasonic Corporation, Panasonic Corporation Of North America	ERBRD may have suffix	Rated 32V, 0.5A.	UL248
Fuse (F25) Alternate	Littelfuse Inc	497	Rated 32V, 0.5A.	UL248
Fuse (F13, F23)	Panasonic Corporation, Panasonic Corporation Of North America	ERBRD may have suffix	Rated 32V, 1.0A.	UL248
Fuse (F13, F23) Alternate	Littelfuse Inc	497	Rated 32V, 1.0A.	UL248
Docking Connector	Interchangeable	Interchangeable	Copper Alloy Pins housed in bodies of Plastic, V-1 or Better.	UL94
PTC for VGA (Located on VGA & Power Button Board)	POLYTRONICS TECHNOLOGY CORP. LITTELFUSE INC.	SMD1812P110TF	8Vdc, 1.1A	IEC/EN 60730-1 - UL 1434
Plastic Barrier (For bottom speaker openings use)	CHENGDU KANGLONGX IN PLASTICS CO LTD	KLX FRPC-1860B, KLX FRPC-1860-83B	VTM-0, 0.125 mm thickness min.	UL 94
- Adhesive (For plastic barrier use)	JINKAIDA GLUTINOUS MANUFACTURE CO., LTD	JKD W001	--	--
Sponge (On Heatsink module) - Adhesive (For sponge use)	Inoac Corp  3M Dexerials Corp	Calmflex F-2G (c2)  9448 G9000	HF-1, 2.0mm thickness min.  -- --	UL 94  -- --

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81-IC-F0033 rev 12.0

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**Certificado No. / Certificate No.** **UL-BR 20.0714**

**Data de Emissão / Date of Issue** 12 de Maio de 2020 / May 12, 2020

**Página / Page** **20/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
**Certificate of conformity valid with pages from 1 to 45**

Glue	Suzhou Jinkaida Glutinous MER Co., Ltd. Suzhou SIDIKE Electronics Adhesive Material Co.,Ltd. 3M Dexerials Corporation	W001  DS-10  9448A/ 9448AB  G9000-SY	Complied with Cl. 4.6.5.  Complied with Cl. 4.6.5.	--  --
Adhesive tape	DIC Corporation	8800SD	--	IEC 60950-1
Overcurrent protective device (for USB Type C port) (to be used when providing USB type C port)	AEM Components (Suzhou) Co Ltd	T0603FF5000TM	35 Vdc, 5 A	Applicable parts of IEC 60950-1, UL 248-1, UL248-14
PCB	HONGHENGSH ENG ELECTRONICAL TECHNOLOGY (HUAIAN) CO LTD	HD5, HD6, ML, ML1, ML3, ML5,ML6, MLU	V-0, min. 105°C	Applicable parts of IEC 60950-1, UL 94, UL 796
	T-MAC TECHVEST PCB CO LTD	MV-1, YA-1, YA-2, YA-3, YA-3A, YA- 4, YA-4A, YA-11	V-0, min. 105 °C	Applicable parts of IEC 60950-1, UL 94, UL 796
Adaptaer (for 20 Vdc, 2,25 A)	Chicony Power Technology Co Ltd	ADLX45YCC2D	I/P: 100-240 Vac, 1.3 A, 50-60 Hz; O/P:20 Vdc, 2.25 A / 15 Vdc, 3 A / 9 Vdc, 2 A / 5 Vdc, 2 A Class II, 40° C Altitude: 5000 m	CB by Nemko (NO102327) CB by Demko (DK-73341-UL), UL
Adapter (For 20 Vdc, 2.25 A) (Alternate)	Chicony Power Technology Co Ltd	ADLX45YCC3D	I/P: 100-240 Vac, 1.3 A, 50-60 Hz; O/P:20 Vdc, 2.25 A / 15 Vdc, 3 A / 9 Vdc, 2 A / 5 Vdc, 2 A Class II, 40° C Altitude: 5000 m	CB by Nemko (NO102328) CB by Demko (DK-73342-UL), UL
Adapter (For 20 Vdc, 2.25 A) (Alternate)	Delta Electronics, Inc.	ADLX45YDC3D, ADLX45YDC2D	I/P: 100-240 Vac, 1.2 A, 50-60 Hz; O/P:20 Vdc, 2.25 A / 15 Vdc, 3 A / 9 Vdc, 2 A / 5 Vdc, 2 A Class II with functional earth for model ADLX45YDC3D, Class II for model ADLX45YDC2D, 40° C Altitude	CB by TUV RH (JPTUV- 088399); CB by TUVRH (JPTUV-088525), UL
Adapter (For 20 Vdc, 2.25 A) (Alternate)	Lite-On Technology Corp	ADLX45YLC2D	I/P: 100-240 Vac, 1.3 A, 50-60 Hz; O/P:20 Vdc, 2.25 A / 15 Vdc, 3 A / 9 Vdc, 2 A / 5 Vdc, 2 A Class II 40° C Altitude: 5000m	CB by Demko (DK-74396-UL); CB by Demko (DK-74550-UL), UL
Adapter (For 20 Vdc, 2.25 A) (Alternate)	Lite-On Technology Corp	ADLX45YLC3D	I/P: 100-240 Vac, 1.3 A, 50-60 Hz; O/P:20 Vdc, 2.25 A / 15 Vdc, 3 A / 9 Vdc, 2 A / 5 Vdc, 2 A Class II 40° C Altitude: 5000m	CB by Demko (DK-73964-UL); CB by Demko (DK-73960-UL), UL
Adapter (For 20 Vdc, 3.25 A) (Alternate)	Chicony Power Technology Co Ltd	ADLC65YCC2D	I/P: 100-240 Vac, 1.3 A, 50-60 Hz; O/P:20 Vdc, 3.25 A / 15 Vdc, 3 A / 9 Vdc, 2 A / 5 Vdc, 2 A Class II 40° C Altitude: 5000m	CB by Nemko (NO102312). CB by Demko (DK-73335-UL), UL
Adapter (For 20 Vdc, 3.25 A) (Alternate)	Chicony Power Technology Co Ltd	ADLX65YCC3D	I/P: 100-240 Vac, 1.8 A, 50-60 Hz; O/P:20 Vdc, 3.25 A / 15 Vdc, 3 A / 9	CB by Nemko (NO102313); CB by Demko (DK-73338-UL), UL

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**Data de Emissão / Date of Issue** 12 de Maio de 2020 / May 12, 2020

**Página / Page** **21/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
**Certificate of conformity valid with pages from 1 to 45**

			Vdc, 2 A / 5 Vdc, 2 A Class II 40° C Altitude: 5000m	
Adapter (For 20 Vdc, 3.25 A) (Alternate)	Delta Electronics, Inc.	ADLC65YDC3D, ADLC65YDC2D	I/P: 100-240 Vac, 1.8 A, 50-60 Hz; O/P: 20 Vdc, 3.25 A / 15 Vdc, 3 A / 9 Vdc, 2 A / 5 Vdc, 2 A Class II 40° C Altitude: 5000m	CB by TUVRH (JPTUV-088370); CB by TUVRH (JPTUV-088549), UL
Adapter (For 20 Vdc, 3.25 A) (Alternate)	Lite-ON Technology Corp	ADLX65YLC2D	I/P: 100-240 Vac, 1.8 A, 50-60 Hz; O/P: 20 Vdc, 3.25 A / 15 Vdc, 3 A / 9 Vdc, 2 A / 5 Vdc, 2 A Class II 40° C Altitude: 5000m	CB by Demko (DK-73622-UL); CB by Demko (DK-73627-UL), UL
Adapter (For 20 Vdc, 3.25 A) (Alternate)	Lite-ON Technology Corp	ADLX65YLCD3	I/P: 100-240 Vac, 1.8 A, 50-60 Hz; O/P: 20 Vdc, 3.25 A / 15 Vdc, 3 A / 9 Vdc, 2 A / 5 Vdc, 2 A Class II 40° C Altitude: 5000m	CB by Demko (DK-73466-M1-UL); CB by Demko (DK-73473-M1-UL), UL
DC Fan	Delta Electronics Inc.	ND75C30XXXXXXXXXX, stands for A-Z, 0-9, - or blank for marketing purpose only	5 Vdc, 0.5 A, 3.05 CFM min	UL, TUV
DC Fan	Asia Vital Components CO., Ltd.	BAPA0706R5HV V=ABCD where A, B, C, D may be A-Z, 0-9 or "-"	5 Vdc, 0.5 A, 3.6 CFM min	UL, TUV

Seção 71:

Componente/Component	Fabricante/Manufacturer	Tipo/Modelo Type/Model	Características técnicas/Technical data	Norma/Standard
Cord set (Optional)	Interchangeable	Interchangeable	---	NBR 14136, NBR NM 60884-1
AC/DC adapter	Acbel Polytech Inc.	ADLX45NAC2A	I/P: 100-240Vac, 50-60Hz, 1.2A O/P: 20Vdc, 2.25A, 45W MAX. Cl. II (altitude: 3100m)	IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1
Alt. AC/DC adapter (Alternate)	Acbel Polytech Inc.	ADLX45NAC3A	I/P: 100-240Vac, 50-60Hz, 1.2A O/P: 20Vdc, 2.25A, 45W MAX. Cl. I (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1
Alt. AC/DC adapter (Alternate)	Chicony Power Technology Co., Ltd.	ADLX45NCC2A, ADLX45NCC2. (The dot "." in model name can be B to Z, 0 to 9 or blank for marketing purpose only.)	I/P: 100-240Vac, 50-60Hz, 1.3A O/P: 20Vdc, 2.25A, Cl. II (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1
Alt. AC/DC adapter (Alternate)	Chicony Power Technology Co., Ltd.	ADLX45NCC3A, ADLX45NCC3. (The dot "." in model name can be B to Z, 0 to 9 or blank for marketing purpose only.)	I/P: 100-240Vac, 50-60Hz, 1.3A O/P: 20Vdc, 2.25A, Cl. I (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1
Alt. AC/DC adapter (Alternate)	Delta Electronics Inc	ADLX45NDC2A, ADLX45NDC3A, ADLX45NDC2, ADLX45NDC3, ADLX45NDC3B, ADP-45TD B	I/P: 100-240Vac, 50-60Hz, 1.2A O/P: 20Vdc, 2.25A, Cl. II (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1

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41-IC-F0033 rev 12.0

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**Data de Emissão / Date of Issue** 12 de Maio de 2020 / May 12, 2020

**Página / Page** **22/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
**Certificate of conformity valid with pages from 1 to 45**

Componente/Component	Fabricante/Manufacturer	Tipo/Modelo Type/Model	Características técnicas/ Technical data	Norma/ Standard
Alt. AC/DC adapter (Alternate)	Lite-On Technology Corporation	ADLX45DLC2* (The * can be any character or blank) PA-1450-17XX (The X can be any character or blank)	I/P: 100-240Vac, 50-60Hz, 1.3A O/P: 20Vdc, 2.25A, Cl. II (altitude: 5000m)	IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1
Alt. AC/DC adapter (Alternate)	Lite-On Technology Corporation	ADLX45DLC3* (The * can be any character or blank) PA-1450-18XX (The X can be any character or blank)	I/P: 100-240Vac, 50-60Hz, 1.3A O/P: 20Vdc, 2.25A, Cl. I (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1
Alt. AC/DC adapter (Alternate)	Chicony Power Technology Co., Ltd.	ADLX65NC.2A (The dot "." in model name can be C, G, T, N and P for marketing purpose only.)	I/P: 100-240Vac, 50-60Hz, 1.8A O/P: 20Vdc, 3.25A, Cl. II (altitude: 5000m)	IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1
Alt. AC/DC adapter (Alternate)	Chicony Power Technology Co., Ltd.	ADLX65NC.3A (The dot "." in model name can be C, G, T, N and P for marketing purpose only.)	I/P: 100-240Vac, 50-60Hz, 1.8A O/P: 20Vdc, 3.25A, Cl. I (altitude: 5000m)	IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1
Alt. AC/DC adapter (Alternate)	Delta Electronics Inc	ADLX65NDC3A, ADLX65NDC3B, ADLX65NDC2A, ADLX65NDC2B, ADLX65NDT3A, ADLX65NDT3B, ADLX65NDT2A, ADLX65NDT2B, ADP-65FD B	I/P: 100-240Vac, 50-60Hz, 1.5A O/P: 20Vdc, 3.25A, Cl. II (altitude: 5000m)	IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1
Alt. AC/DC adapter (Alternate)	Lite-On Technology Corporation	ADLX65NL*2* (* can be any character or blank), PA-1650-71	I/P: 100-240Vac, 50-60Hz, 1.8A O/P: 20Vdc, 3.25A, Cl. II (altitude: 3048m)	IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1
Alt. AC/DC adapter (Alternate)	Lite-On Technology Corporation	ADLX65NL*3* (* can be any character or blank), PA-1650-72	I/P: 100-240Vac, 50-60Hz, 1.8A O/P: 20Vdc, 3.25A, Cl. I (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1
Alt. AC/DC adapter (Alternate)	Delta Electronics Inc.	ADLX65SDC2A	I/P: 100-240Vac, 50-60Hz, 1.5A O/P: 20Vdc, 3.25A, Cl. II (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1
Alt. AC/DC adapter (Alternate)	Delta Electronics Inc.	ADLX45YDC3A	I/P: 100-240V~, 1.2A, 50-60Hz, O/P: 20Vdc/2.25A, 15Vdc/3A, 9Vdc/2A, 5Vdc/2A, Class I. (altitude: 5000m)	IEC 60950-1: 2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1
Alt. AC/DC adapter (Alternate)	Delta Electronics Inc.	ADLX45YDC2A	I/P: 100-240V~, 1.2A, 50-60Hz, O/P: 20Vdc/2.25A, 15Vdc/3A, 9Vdc/2A, 5Vdc/2A, Class II. (altitude: 5000m)	IEC 60950-1: 2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1
Alt. AC/DC adapter (Alternate)	Lite-On Technology Corporation	ADLX45YLC2A	I/P: AC 100-240V, 1.3A 50-60Hz O/P: DC 20V; 2.25A, 15V; 3A, 9V; 2A, 5V; 2A Class II. (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1
Alt. AC/DC adapter (Alternate)	Lite-On Technology Corporation	ADLX45YLC3A	I/P: AC 100-240V, 1.3A 50-60Hz O/P: DC 20V; 2.25A, 15V; 3A, 9V; 2A, 5V; 2A Class I. (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1
Alt. AC/DC adapter (Alternate)	Chicony Power Technology Co., Ltd.	ADLX45YCC3A	I/P: 100-240V~, 50-60Hz, 1.3A DC-output: 2A 5V or 2A 9V or 3A 15V or 2.25A 20V, Cl. I. (altitude: 5000m)	IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1

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**Data de Emissão / Date of Issue** 12 de Maio de 2020 / May 12, 2020

**Página / Page** **23/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
**Certificate of conformity valid with pages from 1 to 45**

Componente/Component	Fabricante/Manufacturer	Tipo/Modelo Type/Model	Características técnicas/ Technical data	Norma/ Standard
Alt. AC/DC adapter (Alternate)	Chicony Power Technology Co., Ltd.	ADLX45YCC2A	I/P: 100-240V~, 50-60Hz, 1.3A DC-output: 2A 5V or 2A 9V or 3A 15V or 2.25A 20V, Cl. II. (altitude: 5000m)	IEC 60950-1: 2005+A1+A2, EN 60950-1:2006+A11+A1+A12+A2, UL 60950-1
Alt. AC/DC adapter (Alternate)	Acbel Polytech Inc / trademark for lenovo	ADLX45YAC2A	I/P: AC 100-240V, 50-60Hz, 1.2A O/P: DC 5V/ 2.0A or 9V/ 2.0A or 15V/ 3.0A or 20V/ 2.25A, Cl. II. (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1+A12+A2, UL 60950-1
Alt. AC/DC adapter (Alternate)	Acbel Polytech Inc .	ADLX45YAC3A	I/P: AC 100-240V, 50-60Hz, 1.2A O/P: DC 5V/ 2.0A or 9V/ 2.0A or 15V/ 3.0A or 20V/ 2.25A, Cl. I. (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1+A12+A2, UL 60950-1
Alt. AC/DC adapter (Alternate)	Delta Electronics Inc.	ADLX65YDC3A	I/P: AC 100-240V, 1.8A 50-60Hz O/P: DC 20V; 3.25A, DC 15V; 3A, DC 9V; 2A, DC 5V; 2A. Class II. (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1+A12+A2, UL 60950-1
Alt. AC/DC adapter (Alternate)	Delta Electronics Inc.	ADLX65YDC2A	I/P: AC 100-240V, 1.8A 50-60Hz O/P: DC 20V; 3.25A, DC 15V; 3A, DC 9V; 2A, DC 5V; 2A. Class II. (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1+A12+A2, UL 60950-1
Alt. AC/DC adapter (Alternate)	Lite-On Technology Corporation	ADLX65YLC3A	I/P: AC 100-240V; 1.8A; 50-60Hz O/P: DC 20V; 3.25A, 15V; 3A, 9V; 2A, 5V; 2A . Class I. (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1+A12+A2, UL 60950-1
Alt. AC/DC adapter (Alternate)	Lite-On Technology Corporation	ADLX65YLC2A	I/P: AC 100-240V; 1.8A; 50-60Hz O/P: DC 20V; 3.25A, 15V; 3A, 9V; 2A, 5V; 2A . Class II. (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1+A12+A2, UL 60950-1
Alt. AC/DC adapter (Alternate)	Chicony Power Technology Co., Ltd.	ADLX65YCC3A	I/P: 100-240V~, 50-60Hz, 1.8A DC-output: 2A5V or 2A 9V or 3A 15V or 3.25A 20V, Cl. I. (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1+A12+A2, UL 60950-1
Alt. AC/DC adapter (Alternate)	Chicony Power Technology Co., Ltd.	ADLX65YCC2A	I/P: 100-240V~, 50-60Hz, 1.8A DC-output: 2A 5V or 2A 9V or 3A 15V or 3.25A 20V, Cl. II. (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950-1: 2006+A11+A1+A12+A2, UL 60950-1
Alt. AC/DC adapter (Alternate)	Chicony Power Technology Co., Ltd.	ADLX65YAC3A	I/P: AC 100-240V; 50-60Hz; 1.8A O/P: DC 5V/2A, 9V/2A, 15V/ 3A, 20V/3.25A, Class I. (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950-1: 2006+A11+A1+A12+A2, UL 60950-1
Alt. AC/DC adapter (Alternate)	Acbel Polytech Inc .	ADLX65YAC2A	I/P: AC 100-240V; 50-60Hz; 1.8A O/P: DC 5V/2A, 9V/2A, 15V/ 3A, 20V/3.25A Class II. (altitude: 5000m)	IEC 60950-1: 2005+A1+A2, EN 60950-1:2006+A11+A1+A12+A2, UL 60950-1
Enclosure: Part of Base Cover	Interchangeable	Mg Alloy AZ91D	Magnesium Alloy. (Conducted Flame Test per sub-clause A.2.)	--
Enclosure: Part of Keyboard Bezel	Interchangeable	Mg Alloy AZ91D	Magnesium Alloy. (Conducted Flame Test per sub-clause A.2.)	--
Enclosure: Part of LCD Rear Cover	Toray Industries Inc.	A695H may have suffix	V-0, nominal 1.5 mm thick.	UL94
Enclosure: Part of LCD Rear Cover Alternate	Toray Industries Inc.	C3452S may have suffix	V-0, nominal 1.35 mm thick.	UL94
Enclosure: Part of LCD Rear Cover Alternate	TEIJIN limited Resin and Plastic	GXV-35 may have suffix	V-0, nominal 1.35 mm thick.	UL94

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41-IC-F0033 rev 12.0



# CERTIFICADO DE CONFORMIDADE

## CERTIFICATE OF CONFORMITY

Certificado No. / Certificate No. **UL-BR 20.0714**

Data de Emissão / Date of Issue 12 de Maio de 2020 / May 12, 2020

Página / Page **24/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
*Certificate of conformity valid with pages from 1 to 45*

Componente/Component	Fabricante/Manufacturer	Tipo/Modelo Type/Model	Características técnicas/ Technical data	Norma/ Standard
Enclosure: Front Sheet Bezel	Polyshine Technology(Shanghai) Co Ltd	Pxx07 may have suffix ("x" would be replaced by a single letter from A to Z.)	V-0, nominal 0.43 mm thick	UL94
Enclosure: Front Bezel Cover bottom	Mitsubishi Engineering-Plastics Corp	MB1700 may have suffix	V-0, nominal 0.8 mm thick.	UL94
Printed Wiring Board	Interchangeable	Interchangeable	Minimum V-1, 105°C	UL796
Flexible Printed Wiring	Interchangeable	Interchangeable	Minimum V-2 or VTM-2. (SELV circuit, no components mounted on it)	UL746E
Battery Pack	LG Chem, Ltd.	L17L6P71	11.4 Vdc, 48Wh, 6 Cell, Polymer, 3S2P	IEC62133:2012, IEC 60950-1(ed.2);Am1+Am2
Battery Pack Alternate	Simplo Technology Co Ltd	L17M6P71	11.4 Vdc, 48Wh, 6 Cell, Polymer, 3S2P	IEC62133:2012, IEC 60950-1(ed.2);Am1+Am2
Battery Pack Alternate	Celxpert Energy Corp	L17C6P71	11.4 Vdc, 48Wh, 6 Cell, Polymer, 3S2P	IEC62133:2012, IEC 60950-1(ed.2);Am1+Am2
RTC battery	Interchangeable	CR2016	Minimum of maximum abnormal charging 10mA. Provided with abnormal charging protection circuit with a Resistor (R4) 1k ohm and Diode (D3)	UL1642
LCD Panel	AU Optronics Corp	B125XTNZZZZ (Z = any alphanumeric character or dot or blank)	12.5 inch TFT-LCD with LED Backlight design.	IEC 60950-1(ed.2);Am1
LCD Panel Alternate	Infovision Electronics (Kunshan) Co Ltd	M125NWxyyyy ( where x could be 0-9, A-Z, blank or symbol "-", y could be 0-9, A-Z, blank or symbol "-")	TFT-LCD with LED Backlight design.	IEC 60950-1(ed.2);Am1+Am2
LCD Panel Alternate	Hefei BOE Optoelectronics Technology Co Ltd	***12***-*** where *** could be any letter of "0" to "9" or "A" to "Z" or blank	TFT-LCD with LED Backlight design.	IEC 60950-1(ed.2);Am1
LCD Panel Alternate	AU Optronics Corp	B125HANZZZZ (Z = any alphanumeric character or dot or blank)	TFT-LCD with LED Backlight design.	IEC 60950-1(ed.2);Am1+Am2
LCD Panel Alternate	Infovision Electronics (Kunshan) Co Ltd	M125NWxyyyy ( where x could be 0-9, A-Z, blank or symbol "-", y could be 0-9, A-Z, blank or symbol "-")	TFT-LCD with LED Backlight design.	IEC 60950-1(ed.2);Am1+Am2
LCD Panel Alternate	Innolux Corp	N125HCE-Gxx where "X" could be any letter of "0" to "9" or "A" to "Z" or blank	TFT-LCD with LED Backlight design.	IEC 60950-1(ed.2);Am1+Am2
LCD Panel Alternate	AU Optronics Corp	B125HAKZZZZ (Z = any alphanumeric character or dot or blank)	TFT-LCD with LED Backlight design.	IEC 60950-1(ed.2);Am1+Am2
LCD Panel Alternate	Infovision Electronics (Kunshan) Co Ltd	R125NWxyyy ( where x could be 0-9, A-Z, blank or symbol "-", y could be 0-9, A-Z, blank or symbol "-")	TFT-LCD with LED Backlight design.	IEC 60950-1(ed.2);Am1+Am2
SSD	Lenovo (Beijing) Ltd	LENSE20512GMSP34MEAT2TA may have suffix	3.3Vdc, 3A	IEC 60950-1(ed.2);Am1+Am2
SSD Alternate	Interchangeable	Interchangeable	3.3 Vdc	IEC 60950-1(ed.2);Am1+Am2
Keyboard	Chicony Electronics Co Ltd	CMSNBL-xxxx or CMSBL-xxxx (Where x may be 0-9, a-z, A-Z, "-", ".", "-" or blank)	Minimum HB	UL60950-1
Keyboard Alternate	Lite-On Technology Corp	SN5370 may have suffix	Minimum HB	UL60950-1
Keyboard Alternate	Primax Electronics Ltd	NBLBF or NBBF	Minimum HB	UL60950-1

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41-IC-F0033 rev 12.0

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**Data de Emissão / Date of Issue** 12 de Maio de 2020 / May 12, 2020

**Página / Page** **25/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
**Certificate of conformity valid with pages from 1 to 45**

Componente/Component	Fabricante/Manufacturer	Tipo/Modelo Type/Model	Características técnicas/ Technical data	Norma/ Standard
Supplementary Protector (U88, IC Current limiter) for USB AOU(J34)	Texas Instruments Inc	SN1702001 may have suffix	4.5-5.5Vdc, continuous 2.5A protective 3.1A.	IEC60950-1 (ed2) Am1+Am2
Supplementary Protector (U53, IC Current limiter) for USB(J33)	Texas Instruments Inc	TPS2069 may have suffix	2.7-5.5Vdc, continuous 1.5A protective 3.9A.	IEC60950-1 (ed2) Am1+Am2
Supplementary Protector (U53, IC Current limiter) for USB(J33) Alternate	ROHM Co Ltd	BD82032FVJ may have suffix	4.5-5.5Vdc, continuous 1.5A protective 2.3A.	IEC60950-1 (ed2) Am1+Am2
Supplementary Protector (U110) for HDMI(J62)	Texas Instruments Inc	TPS2553, may be followed by -1, followed by DRV or DBV	2.5-6.5Vdc, continuous 1.5A protective 1.7A	IEC60950-1 (ed2) Am1+Am2
Supplementary Protector (U192) for Thunderbolt, Type C (J59, J60)	Texas Instruments Inc	SN1701012 may have suffix (TPS65988)	PPHV1, PPHV2: 4.5-22Vdc, continuous 4A protective 4.91A, PPCABLE1, PPCABLE2 2.95-5.5Vdc, continuous 0.6A protective 0.9A,	IEC60950-1 (ed2) Am1+Am2
Supplementary Polyswitch (F41, Thermistor) for RJ45 dongle(J59)	AEM Components (Suzhou) Co Ltd	PBS0603-035F may have suffix	6Vdc, hold 0.35A, trip 0.75A	IEC/EN60738-1:2006+A1, IEC/EN60738-1-1:2008
Supplementary Polyswitch (F41, Thermistor) for RJ45 dongle(J59) Alternate	Bourns Electronics (Taiwan) Ltd	MF-FSMF035X may have suffix	6Vdc, hold 0.35A, trip 0.75A	IEC/EN60730-1:2000
Fuse (F23, F51)	Panasonic Corporation, Panasonic Corporation Of North America	ERBRD may have suffix	32 Vdc, 1 A	UL248
Fuse (F23, F51) Alternate	Littelfuse Inc	497 may have suffix	32 Vdc, 1 A	UL248
Fuse (F25)	Panasonic Corporation, Panasonic Corporation Of North America	ERBRD may have suffix	32 Vdc, 0.5 A	UL248
Fuse (F25) Alternate	Littelfuse Inc	497 may have suffix	32 Vdc, 0.5 A	UL248
DC Fan	Asia Vital Components Co Ltd	BAZA0605R5H may have suffix	5Vdc, 0.5A	UL507, IEC 60950-1(ed.2);Am1+Am2
DC Fan Alternate	Delta Electronics Inc	ND55C47 may have suffix	5Vdc, 0.45A	UL507, IEC 60950-1(ed.2);Am1+Am2
Speaker	Interchangeable	Interchangeable	Two provided. Each 8ohm, 1W (typical)	--
Interconnecting Cable (Optional)	Interchangeable	Interchangeable	Max. 3.05 m in length, VW-1 or FT-1.	UL758
Connectors and Receptacles for USB ports, Ethernet port, HDMI port, Audio port and micro SD card port.	Interchangeable	Interchangeable	V-1 or Better.	UL94

Seção 73:

Componente/Component	Fabricante/Manufacturer	Tipo/Modelo Type/Model	Características técnicas/ Technical data	Norma/ Standard
Cord set (Optional)	Interchangeable	Interchangeable	---	NBR 14136, NBR NM 60884-1
Alt. Power Adapter	Acbel Polytech Inc / trademark for lenovo	ADLX45YAC2A	I/P: AC 100-240V 50-60Hz, 1.2A O/P: DC 5V/ 2.0A or 9V/2.0A or 15V/ 3.0A or 20V/2.25A, Cl. II. (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1

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**Data de Emissão / Date of Issue** 12 de Maio de 2020 / May 12, 2020

**Página / Page** **26/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
**Certificate of conformity valid with pages from 1 to 45**

Componente/ Component	Fabricante/ Manufacturer	Tipo/Modelo Type/Model	Características técnicas/ Technical data	Norma/ Standard
Alt. Power Adapter	Acbel Polytech Inc .	ADLX45YAC3A	I/P: AC 100-240V, 50-60Hz, 1.2A O/P: DC 5V/ 2.0A or 9V/ 2.0A or 15V/ 3.0A or 20V/ 2.25A, Cl. I. (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1
Alt. Power Adapter	Delta Electronics, Inc.	ADLX65YDC3A	I/P: AC 100-240V, 1.8A 50-60Hz O/P: DC 20V; 3.25A, DC 15V; 3A, DC 9V; 2A, DC 5V; 2A. Class II. (altitude: 5000m)	IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1
Alt. Power Adapter	Delta Electronics, Inc.	ADLX65YDC2A	I/P: AC 100-240V 1.8A 50-60Hz O/P: DC 20V; 3.25A, DC 15V; 3A, DC 9V; 2A, DC 5V; 2A. Class II. (altitude: 5000m)	IEC 60950-1: 2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1
Alt. Power Adapter	Lite-On Technology Corporation	ADLX65YLC3A	I/P: AC 100-240V; 1.8A; 50-60Hz O/P: DC 20V; 3.25A, 15V; 3A, 9V; 2A, 5V; 2A . Class I. (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1
Alt. Power Adapter	Lite-On Technology Corporation	ADLX65YLC2A	I/P: AC 100-240V; 1.8A; 50-60Hz O/P: DC 20V; 3.25A, 15V; 3A, 9V; 2A, 5V; 2A . Class II. (altitude: 5000m)	IEC 60950-1: 2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1
Alt. Power Adapter	Chicony Power Technology Co., Ltd.	ADLX65YCC3A	I/P: 100-240V~ 50-60Hz, 1.8A DC-output: 2A 5V or 2A 9V or 3A 15V or 3.25A 20V, Cl. I. (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1
Alt. Power Adapter	Chicony Power Technology Co., Ltd.	ADLX65YCC2A	I/P: 100-240V~ 50-60Hz, 1.8A DC-output: 2A 5V or 2A 9V or 3A 15V or 3.25A 20V, Cl. II. (altitude: 5000m)	IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1
Alt. Power Adapter	Acbel Polytech Inc .	ADLX65YAC3A	I/P: AC 100-240V; 50-60Hz; 1.8A O/P: DC5V/2A,9V/2A,15V/ 3A,20V/3.25A, Class I. (altitude: 5000m)	IEC 60950-1: 2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1
Alt. Power Adapter	Acbel Polytech Inc .	ADLX65YAC2A	I/P: AC 100-240V; 50-60Hz; 1.8A O/P: DC 5V/2A,9V/2A,15V/ 3A,20V/3.25A Class II. (altitude: 5000m)	IEC 60950-1: 2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1
Enclosure (for LCD Cover)	Toray Industries Inc	A695H	V-0, thickness 0.8mm min., 130°C	UL 94
Enclosure (for LCD Bezel)	Mitsubishi Engineering-Plastics Corp	MB1700+ (+ - Suffix optional, exceptions: The following cannot be used as optional suffixes:"A" for 1501, 1502, 1511, 1521 & 2502, "N" for NXG5050, NXG5030, NXG5501, & CGF-(v)(u),"S1" for F20-54, "R" for grade MB2211, "V" for grades S-3000+(f1), S-3001+(f1), S-3003+(f1) & S-2000+(f1), S-2001+(f1), S-2003+(f1).)	V-0, thickness 0.75mm min., 60°C	UL 94

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**Data de Emissão / Date of Issue** 12 de Maio de 2020 / May 12, 2020

**Página / Page** **27/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
**Certificate of conformity valid with pages from 1 to 45**

Componente/ Component	Fabricante/ Manufacturer	Tipo/Modelo Type/Model	Características técnicas/ Technical data	Norma/ Standard
Enclosure (for top side around Keyboard)	Mitsubishi Engineering- Plastics Corp	TMB1615+(+Suffix optional, exceptions: The following cannot be used as optional suffixes: "A" for 1501, 1502, 1511, 1521 & 2502, "N" for NXG5050, NXG5030, NXG5501, & CGF-(v)(u), "S1" for F20-54, "R" for grade MB2211, "V" for grades S-3000+(f1), S- 3001+(f1), S-3003+(f1) & S- 2000+(f1), S-2001+(f1), S- 2003+(f1).)	V-0, thickness 1.0mm min., 60°C	UL 94
Enclosure (for bottom case)	E I Dupont De Nemours & Co Inc	HTNFR55G50NHLW	V-0, thickness 0.75mm min., 65°C	UL 94
TFT-LCD panel	AU Optronics Corporation	B140HAK01.0	14.0" (LED backlight) , Glass is of min. 0.34mm thickness	IEC 60950-1
TFT-LCD panel	Interchangeable	Interchangeable	14.0" (LED backlight), Glass is of min. 0.34mm thickness	IEC 60950-1
HDD (optional)	Western Digital Technologic, Inc.	WDUUUUXZYXXYY	Max. 1.5A/1.0A, 5Vdc /12Vdc	IEC 60950-1(ed.2);am1; am2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1
HDD (optional)	Interchangeable	Interchangeable	Max. 1.5A/1.0A, 5Vdc/12Vdc	IEC 60950-1(ed.2);am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, UL 60950-1
SSD (optional)	Samsung Electronics Co., Ltd.	MZ-N***** (*= 0-9, A-Z, blank, slash or dash)	3.3Vdc, 3.5A max.	IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1
Alt. SSD (optional)	Lite-on Technology Corporation	CV3- CExxxxxxx ("x" can be any alphanumeric character or blank)	5Vdc, 1.0 or 1.5 or 2.0A	IEC 60950- 1:2005+A1+A2
Alt. SSD (optional)	Interchangeable	Interchangeable	Generic, 3.3 Vdc, 3.5A Max.; or 5Vdc, 2.0A Max.	IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1
SSHD (optional)	Seagate Technology Inc.	ST3 with additional suffix, 3.5 Series	5/12Vdc, 1.5 A max.	IEC 60950-1
SSHD (optional)	Seagate Technology Inc.	ST9 with additional suffix, 2.5 Series	5Vdc, 1.5 A max.	IEC 60950-1
SSHD (optional)	Interchangeable	Interchangeable	5/12Vdc, 1.5 A max., or 5Vdc, 1.5 A max.	IEC 60950-1:2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2,UL 60950-1
Speakers (two provided)	Interchangeable	Interchangeable	Each rated 4Ω max., 2.5W max.	IEC 60950-1

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84-IC-F0033 rev 12.0



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**Data de Emissão / Date of Issue** 12 de Maio de 2020 / May 12, 2020

**Página / Page** **28/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
**Certificate of conformity valid with pages from 1 to 45**

Componente/ Component	Fabricante/ Manufacturer	Tipo/Modelo Type/Model	Características técnicas/ Technical data	Norma/ Standard
Building-in Li-ion battery pack (Optional)	Sanyo Energy (Suzhou) Co Ltd	SB10K97576	NOM 11.55Vdc; Typ. 2080mAh/24Wh; Min. 1970mAh/22.75Wh	EC 60950-1(ed.2);am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, IEC 62133(ed.2), UL 60950-1, UL 2054
Alt. Building-in Li-ion battery pack (Optional)	LG Chem, Ltd	SB10K97577	11.4Vdc, 2.10Ah / 24Wh	EC 60950-1(ed.2);am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, IEC 62133(ed.2), UL 60950-1, UL 2054
Alt. Building-in Li-ion battery pack (Optional)	Simplo Technology Co Ltd	SB10K97578	11.46Vdc, 2.095Ah or 24Wh	EC 60950-1(ed.2);am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, IEC 62133(ed.2), UL 60950-1, UL 2054
External Li-ion battery pack	Sanyo Energy (Suzhou) Co Ltd	SB10K97579	NOM 11.55Vdc, Typ. 2080mAh/ 24Wh, Min. 1970mAh/22.75Wh	EC 60950-1(ed.2);am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, IEC 62133(ed.2), UL 60950-1, UL 2054
External Li-ion battery pack	LG Chem, Ltd.	SB10K97580	11.4Vdc, 2.1Ah, 24Wh	EC 60950-1(ed.2);am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, IEC 62133(ed.2), UL 60950-1
External Li-ion battery pack	Celxpert Energy Corp	SB10K97581	11.4Vdc, 24Wh, 2.11Ah	EC 60950-1(ed.2);am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, IEC 62133(ed.2), UL 60950-1 (investigated with UL 2054)
Alt. External Li-ion battery pack	Sanyo Energy (Suzhou) Co Ltd	SB10K97582	10.8Vdc, Typ. 4400mAh, 48Wh; Min. 4116mAh, 44.45Wh	EC 60950-1(ed.2);am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, IEC 62133(ed.2), UL 60950-1 (investigated with UL 2054)
Alt. External Li-ion battery pack	LG Chem, Ltd.	SB10K97583	10.8Vdc, 48Wh, 4400mAh	EC 60950-1(ed.2);am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, IEC 62133(ed.2), UL 60950-1
Alt. External Li-ion battery pack	Sanyo Energy (Suzhou) Co Ltd	SB10K97584	10.8Vdc, Typ. 6600mAh, 72Wh; Min. 6272mAh; 67.73Wh	EC 60950-1(ed.2);am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, IEC 62133(ed.2), UL 60950-1 (investigated with UL 2054)

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**Data de Emissão / Date of Issue** 12 de Maio de 2020 / May 12, 2020

**Página / Page** **29/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
**Certificate of conformity valid with pages from 1 to 45**

Componente/ Component	Fabricante/ Manufacturer	Tipo/Modelo Type/Model	Características técnicas/ Technical data	Norma/ Standard
Alt. External Li-ion battery pack	LG Chem, Ltd.	SB10K97585	11.25Vdc, 6.32Ah, 72Wh	EC 60950-1(ed.2);am1; am2, EN 60950-1: 2006+A11+A1+A12+A2, IEC 62133(ed.2), UL 60950-1 (investigated with UL 2054)
Alt. External Li-ion battery pack	Simplo Technology Co Ltd	SB10K97597	11.46Vdc, 2.095Ah or 24Wh	IEC 60950-1(ed.2);am1; am2, EN 60950-1: 2006+A11+A1 +A12+A2, IEC 62133(ed.2), UL 60950-1 (investigated with UL 2054)
DC Fan	Delta Electronics, Inc.	ND75C16XXXX XXXXXXX (X stands for A-Z, 0-9, - or blank for marketing purpose only.)	5Vdc, 0.45A Max., 3.47CFM min.	IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 507
DC Fan	Sunonwealth Electric Machine	EG50050S1-CA3Z (Z stands for 30 characters. Each character stands for one of the following signs: 0-9, A-Z, (, ), ., /, - or blank for Marketing purpose only.)	5Vdc, 0.45mA, 2.25W, 3.9CFM	IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 507
DC Fan	Toshiba Home Technology Corp.	M-256C-XX (XX : Rev. No. for modification not related to safety aspects, blank or any numbers (2 digits))	5Vdc, 0.29A, 1.8CFM	IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 507
RTC battery (Lithium type)	Panasonic Corporation Of North America	CR1632#, CR1632*, CR-1632* (# - These cells and batteries may come with an optional single or multiple alphanumeric denoting various pin, tab, cap or wire termination types ; * - Cell model numbers may be followed by an optional slash (/) and single or multiple alphanumeric characters (i.e. letters and/or numbers), which denote optional features such as various mounting tabs, connecting leads or plugs, packaging, etc.)	3Vdc, max. abnormal charging current 4mA	UL 1642
RTC battery (Lithium type)	Hitachi Maxell Ltd	CR1632* (* - These cells and batteries may come with an optional single or multiple alphanumeric denoting various pin, tab, cap or wire termination types.)	3Vdc, max. abnormal charging current 4mA	UL 1642
Alt. RTC battery (Lithium type)	Double Best Co Ltd	CR1632 (j)(k) ((j) - These cells may have Various insulating tube, ring, or tape (k) - These cells and batteries may come with an optional single or multiple alphanumeric suffix denoting various pin, tab, cap or wire termination types)	5Vdc, max. abnormal charging current 10mA	UL 1642

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**Data de Emissão / Date of Issue** 12 de Maio de 2020 / May 12, 2020

**Página / Page** **30/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
**Certificate of conformity valid with pages from 1 to 45**

Componente/ Component	Fabricante/ Manufacturer	Tipo/Modelo Type/Model	Características técnicas/ Technical data	Norma/ Standard
Power Distribution Switch (U207 for USB type C port used)	Texas Instruments Inc	TPS65988	Input Voltage: 1. PPHV1: 4.5 to 6 VDC, 1 to 4 A ; 2. PPHV2: 4.5 to 6 VDC, 1 to 4 A ; 3. PPCABLE1: 2.95 to 5.5 Vdc, 0.6 A ; 4. PPCABLE2: 2.95 to 5.5 Vdc, 0.6 A ; 5. VIN_3V3: 3.3 VDC ; Output Continuous Rating: 1. VBUS1: 4.5 to 6 VDC, 1 to 4 A, with PPHV1 input ; 2. VBUS2: 4.5 to 6 VDC, 1 to 4 A, with PPHV2 input ; 3. C1CC1/C1CC2: 2.95 to 5.5 Vdc, 0.6A, with PPCABLE1 input ; 4. C2CC1/C2CC2: 2.95 to 5.5 Vdc, 0.6A, with PPCABLE2 input Output Current Limit: 1. VBUS1: 4.5 to 6 VDC, 1.39 to 4.91A, with PPHV1 input; 2. VBUS2: 4.5 to 6 VDC, 1.39 to 4.91 A, with PPHV2 input ; 3. C1CC1/C1CC2: 2.95 to 5.5 Vdc, 0.9A, with PPCABLE1 input ; 4. C2CC1/C2CC2: 2.95 to 5.5 Vdc, 0.9A, with PPCABLE2 input	IEC 60950-1: 2005+A1+A2; UL Subject 2367
PTC (F60) for docking port used	Littelfuse Inc	0603L035YR	6Vdc, 0.35A	IEC/EN 60730- 1, UL 1434
PTC (F60) for docking port used	Bourns Electronics (Taiwan) Ltd	MF-FSMF035	6Vdc, 350mA	IEC/EN 60730- 1, UL 1434
Power Distribution Switch (U53) for USB3.0 port used	Texas Instruments Inc	TPS2069, may be followed by other characters that do not impact the safety feature of the device.	Input Voltage: 2.7Vdc - 5.5Vdc; Output Continuous Rating: 1.5 A; Output Current Limit: 3.9 A	IEC 60950-1: 2005+A1+A2; UL Subject 2367
Power Distribution Switch (U53) for USB3.0 port used	Rohm Co Ltd	BD82032FVJ, may be followed by additional suffixes	2.3 A max., 4.5-5.5 Vdc; Class III. SELV	IEC 60950-1: 2005+A1+A2; UL Subject 2367
Power Distribution Switch (U88) for USB3.0 port used	Texas Instruments Inc	INC SN1702001	Input Voltage: 4.5Vdc to 5.5Vdc; Output Continuous Rating: 2.5 A; Output Current Limit: 3.1 A	IEC 60950-1: 2005+A1+A2; UL Subject 2367
Power Distribution Switch (U88) for USB3.0 port used	Pericom Semiconductor Corp	PI5USB25xxyZ HEz where xx is 44, 46, 47 or 48 and y is blank or A, ZH is packaging type, E is Pb-free, and z is blank for bulk packaging or X for tape and reel packaging.	Input Voltage: 4.5Vdc to 5.5Vdc; Output Continuous Rating: 30mA-2.5A; Output Current Limit: 100Ma-3.18A	IEC 60950-1: 2005+A1+A2; UL Subject 2367
Power Distribution Switch (U110) for HDMI port used	Texas Instruments Inc	TPS2553 series	Input Voltage: 2.5Vdc to 6.5Vdc; Output Continuous Rating: 1.5 A; Output Current Limit: 1.7 A	IEC 60950-1: 2005+A1+A2; UL Subject 2367

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84-IC-F0033 rev 12.0

# CERTIFICADO DE CONFORMIDADE

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**Certificado No. / Certificate No.** **UL-BR 20.0714**

**Data de Emissão / Date of Issue** 12 de Maio de 2020 / May 12, 2020

**Página / Page** **31/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
**Certificate of conformity valid with pages from 1 to 45**

Componente/ Component	Fabricante/ Manufacturer	Tipo/Modelo Type/Model	Características técnicas/ Technical data	Norma/ Standard
Fuse (F61 for SD card slot ; F43 for smart card slot) <b>1)</b>	Littelfuse Inc	497	32Vdc, 1A	UL 248
Fuse (F61 for SD card slot ; F43 for smart card slot) <b>1)</b>	Panasonic Corporation, Panasonic Corporation Of North America	ERBRD*	32Vdc, 1A	UL 248
Sponge for heatsink	Century Creation International Co Ltd	CR-2030B	V-1, min. 1.0mm thickness	UL 94
Sponge for heatsink - glue	Sony	G9000	--	IEC 60950-1
Internal plastic barrier for Speaker openings	Chengdu Kanglongxin Plastics Co Ltd	KLX FRPC-1860B	VTM-0, min. 0.3mm thickness	UL 94
Internal plastic barrier for Speaker openings - adhesive tape	Jiangsu Sidike New Materials Science & Technology Co Ltd	DST-(a)	100 °C	UL 510A
ThinkPad WiGig Dock (Optional)	Lenovo Information Products (Shenzhen) Co., Ltd.	W123	20Vdc, 2.25A	IEC 60950-1:2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2
PCB	Interchangeable	Interchangeable	min. V-1, 105°C min	UL 796

Seção 74:

Componente/Component	Fabricante/ Manufacturer	Tipo/Modelo Type/Model	Características técnicas/ Technical data	Norma/ Standard
Cord set (Optional)	Interchangeable	Interchangeable	---	NBR 14136, NBR NM 60884-1
AC/DC adapter	Acbel Polytech Inc. (Lenovo)	ADLX45YAC2A	Input: AC 100-240V; 50-60Hz, 1.2A, Class II Output: DC 5V/2.0A or 9V/2.0A or 15V/3.0A or 20Vdc/2.25A	IEC 60950-1:2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1
AC/DC adapter	Acbel Polytech Inc. (Lenovo)	ADLX45YAC3A	Input: AC 100-240V; 50-60Hz, 1.2A, Class I Output: DC 5V/2.0A or 9V/2.0A or 15V/3.0A or 20Vdc/2.25A	IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1
AC/DC adapter	Chicony Power Technology Co., Ltd (Lenovo)	ADLX45YCC2A	I/P: 1.3A 100-240V~ 50-60Hz Cl.II. DC-output: 2A 5V or 2A 9V or 3A 15V or 2.25A 20V	IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1
AC/DC adapter	Chicony Power Technology Co., Ltd (Lenovo)	ADLX45YCC3A	I/P: 1.3A 100-240V~50-60Hz Cl.I. DC-output: 2A 5V or 2A 9V or 3A 15V or 2.25A 20V	IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1
AC/DC adapter	Delta Electronics Inc (Lenovo)	ADLX45YDC3A, ADLX45YDC2A	Input: 100-240V~, 1.2A 50-60Hz; Output: 20Vdc/2.25A or 15Vdc/3A or 9Vdc/2A or 5Vdc/2A	IEC 60950-1: 2005+A1+A2, EN 60950-1:2006+A11+A1 +A12+A2, UL 60950-1
AC/DC adapter	Lite-On Technology Corporation (Lenovo)	ADLX45YLC2A	Input: AC 100-240V; 1.3A; 50-60Hz; Class II Output: DC 20V; 2.25A, 15V; 3A, 9V; 2A, 5V; 2A	IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1
AC/DC adapter	Lite-On Technology Corporation (Lenovo)	ADLX45YLC3A	Input: AC 100-240V; 1.3A; 50-60Hz; Class I Output: DC 20V; 2.25A,15V; 3A, 9V; 2A, 5V; 2A	IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1

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**Data de Emissão / Date of Issue** 12 de Maio de 2020 / May 12, 2020

**Página / Page** **32/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
**Certificate of conformity valid with pages from 1 to 45**

Componente/Component	Fabricante/Manufacturer	Tipo/Modelo Type/Model	Características técnicas/ Technical data	Norma/ Standard
AC/DC adapter	Acbel Polytech Inc. (Lenovo)	ADLX65YAC2A	Input: AC 100-240V; 50-60Hz; 1.8A; Class II Output: DC 5V/2.0A or 9V/2.0A or 15V/3.0A or 20V/3.25A	IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1
AC/DC adapter	Acbel Polytech Inc. (Lenovo)	ADLX65YAC3A	Input: AC 100-240V; 50-60Hz; 1.8A; Class I Output: DC 5V/2.0A or 9V/2.0A or 15V/3.0A or 20V/3.25A	IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1
AC/DC adapter	Chicony Power Technology Co., Ltd (Lenovo)	ADLX65YCC2A	I/P: 1.8A 100-240V~ 50-60Hz Cl.II. DC-output: 2A 5V or 2A 9V or 3A 15V or 3.25A 20V	IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1
AC/DC adapter	Chicony Power Technology Co., Ltd (Lenovo)	ADLX65YCC3A	I/P: 1.8A 100-240V~ 50-60Hz Cl.I. DC-output: 2A 5V or 2A 9V or 3A 15V or 3.25A 20V	IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1
AC/DC adapter	Delta Electronics Inc (Lenovo)	ADLX65YDC2A, ADLX65YDC3A	Input: AC 100- 240V; 1.8A; 50-60Hz; Class II Output: DC 20V; 3.25A, DC 15V; 3A, DC 9V; 2A, DC 5V; 2A	IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1
AC/DC adapter	Lite-On Technology Corporation (Lenovo)	ADLX65YLC2A	Input: AC 100-240V; 1.8A; 50-60Hz; Class II Output: DC 20V; 3.25A, 15V; 3A, 9V; 2A, 5V; 2A	IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1
AC/DC adapter	Lite-On Technology Corporation (Lenovo)	ADLX65YLC3A	Input: AC 100-240V; 1.8A; 50-60Hz; Class II Output: DC 20V; 3.25A, 15V; 3A, 9V; 2A, 5V; 2A	IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1 +A12+A2, UL 60950-1
Plastic Enclosure	Covestro Deutschland AG [PC Resins]	FR3002 + (+ - Material designations may be followed by a six digit numerical code denoting color.)	V-0, min. 1.2 mm thick	UL 94
Plastic Enclosure	Covestro Deutschland AG [PC Resins]	FR3021 + (+ - Material designations may be followed by a six digit numerical code denoting color.)	V-0, min. 1.5 mm thick	UL 94
Plastic Enclosure	Ningbo Lg Yongxing Chemical Co Ltd	LUPOY GN-5001RFD	V-0, min. 1.0 mm thick	UL 94
Plastic Enclosure	Ningbo Lg Yongxing Chemical Co Ltd	LUPOY GN- 5151RF(#) (#) - May or may not be followed by suffix letter from A-Z inclusive, except F, and except Grades AF302G, HT700B, XR401B, LI912A, AF303G, AF303S	V-0, min. 1.0 mm thick	UL 94
Mesh for speaker opening	Chengdu Kanglongxin Plastics Co Ltd	H KLX FRPC- 1860, H KLX FRPC-1860B	VTM-0, min. 0.125 mm thickness	UL 94
Mesh for speaker opening	Chengdu Kanglongxin Plastics Co Ltd	KLX FRPC-1860, KLX FRPC-1860B	VTM-0, min. 0.125 mm thickness	UL 94
Adhesive for speaker mesh	3M	467	Complied with Cl. 4.6.5	IEC 60950-1
Mesh for rear side opening	Interchangeable	Interchangeable	Metal, thickness 0.2 mm	-
Adhesive for rear side opening	Jiangshu Sidike Electronics Adhesive Material Co Ltd	DS-5	Complied with Cl. 4.6.5	IEC 60950-1

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Certificado No. / Certificate No. **UL-BR 20.0714**

Data de Emissão / Date of Issue 12 de Maio de 2020 / May 12, 2020

Página / Page **33/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
*Certificate of conformity valid with pages from 1 to 45*

Componente/Component	Fabricante/Manufacturer	Tipo/Modelo Type/Model	Características técnicas/ Technical data	Norma/ Standard
DC Fan	Asia Vital Components Co., Ltd	BAZA0706R5HY002	5Vdc, 0.5A, 3.42CFM min.	EN 60950-1:2006/A2: 2013
DC Fan	Sunonwealth Electric Machine Industry Co. Ltd.	EG50050S1-CCZ Z stands for 30 characters. Each character stands for one of the following signs: 0- 9, A-Z, (, ), ., /, - or blank for marketing purpose only	5Vdc, 450mA, 2.25W, 3.6CFM min.	EN 60950-1: 2006+A11+A1+ A12+A2
DC Fan	Toshiba Home Technology Corp.	M-257C-XX XX: Rev. No. for modification not related to safety aspects, blank or any numbers (2 digits)	5Vdc, 0.34A, 2.0CFM min.	EN 60950-1:2006/A2: 2013
Li-ion battery pack	Lg Chem, Ltd. (Lenovo)	L17L3P51	11.1Vdc, 4050mAh, 45Wh.	IEC 60950-1 (ed2); am 1; am2, IEC 62133 (ed.2), UL 60950-1; 2nd, UL 2054
Li-ion battery pack	Simplo Technology Co Ltd (Lenovo)	L17M3P51, L17M3P52	11.1Vdc 4.08Ah or 4.12Ah or 45Wh	IEC 60950-1 (ed2); am 1; am2, IEC 62133 (ed.2), UL 60950-1; 2nd, UL 2054
Li-ion battery pack	Celxpert Energy Corp (Lenovo)	L17C3P51	11.1Vdc, 45Wh, 4120mAh	IEC 60950-1 (ed2); am 1; am2, IEC 62133 (ed.2), UL 60950-1; 2nd, UL 2054
LCD panel	AUO	B140HAN04.2	14.0" TFT, glass type, min. 0.34 mm thick (with LED back-light module)	IEC 60950-1
LCD panel	Interchangeable	Interchangeable	14.0" TFT, glass type, min. 0.34 mm thick (with LED back-light module)	IEC 60950-1
SSD (Optional)	Samsung Electronics Co., Ltd.	MZ-V*****	3.3Vdc, 3.5A max.	IEC 60950-1, UL 60950-1
Alt. SSD (Optional)	SK Hynix Inc.	HFSabcG32MNBdefgh	5Vdc, 2.0A	EN 60950-1:2006+A11+A1+A12
Alt. SSD (Optional)	Samsung Electronics Co., Ltd.	MZ-5*****	12Vdc, 0.5A	IEC 60950-1:2005+A1+A2, UL 60950-1, 2 <sup>nd</sup>
Alt. SSD (Optional)	Interchangeable	Interchangeable	3.3Vdc, 3.5A max. or 5Vdc, 2.0A max. or 12Vdc, 0.5A max.	IEC 60950-1, EN 60950-1, UL 60950-1
HDD (optional)	Seagate Technology	ST series (ST will be followed by suffixes indicating disk size, storage capacity and SELV options) 3.5 series (3.5 will be followed by suffixes indicating storage capacity, SELV options and disk speed)	5/12Vdc, 1.5A max.	EN 60950-1:2006+A11+A1+A12
HDD (optional)	Interchangeable	Interchangeable	5/12Vdc, 1.5A max.	IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1+A12+A2, UL 60950-1
SSHD (optional)	Seagate Technology Inc.	ST3 with additional suffix, 3.5 Series	5/12Vdc, 1.5 A max./ 1.5 A max.	IEC 60950-1, UL 60950-1
SSHD (optional)	Seagate Technology Inc.	ST9 with additional suffix, 2.5 Series	5Vdc, 1.5 A max.	IEC 60950-1, UL 60950-1
SSHD (optional)	Interchangeable	Interchangeable	5/12Vdc, 1.5 A max./ 5Vdc, 1.5 A max.	IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A11+A1+A12+A2, UL 60950-1

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**Data de Emissão / Date of Issue** 12 de Maio de 2020 / May 12, 2020

**Página / Page** **34/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
**Certificate of conformity valid with pages from 1 to 45**

Componente/Component	Fabricante/Manufacturer	Tipo/Modelo Type/Model	Características técnicas/ Technical data	Norma/ Standard
RTC Battery (Lithium)	Panasonic Corporation, Panasonic Corporation Of North America	CR2032* (* Cell model numbers may be followed by an optional slash (/) and single or multiple alphanumeric characters (i.e. letters and/or numbers), which denote optional features such as various mounting tabs, connecting leads or plugs, packaging, etc.)	3V, max. abnormal charging current 10mA	UL 1642
RTC Battery (Lithium)	Interchangeable	CR2032	3V, max. abnormal charging current 10mA	UL 1642
PCB	Interchangeable	Interchangeable	Min. V-1, 105°C min.	UL 796
Speakers (Two provided)	Interchangeable	Interchangeable	4Ω min., max. 2.5W	IEC 60950-1
Power Distribution Switch (U6401, U0302) for USB 3.1 and USB 2.0 port use	Silergy	SY6288xyyyy (x=A, B,C,D,E; yyyyy=0-9, A-Z or blank)	I/P: DC 2.5-5.5V O/P: DC 5.5 max., 1.6A max. (x=A, B) DC 5.5 max., 3.7A max. (x=C,D,E)	IEC 60950-1: 2005+A1+A2, UL 2367
Power Distribution Switch (U6402) for USB3.1 port use	Texas Instruments Inc	TPS2543, TPS2544, TPS2545, TPS2546 Additional suffixes after the model number designate the type of integrated circuit package, integrated circuit lead types or other features that are considered not to affect the functionality of the device.	Input Voltage = 4.5 Vdc to 5.5 Vdc Output Continuous Rating: TPS2543, TPS2544, TPS2545, TPS2546 = 2.5 A Output Current Limit: TPS2543, TPS2544, TPS2545, TPS2546 = 3.1 A	IEC 60950-1: 2005+A1+A2, UL 2367
Power Distribution Switch (U4301) for USB-C port use	NXP Semiconductor Taiwan Ltd.	NX5P3290UK	Input Voltage Range: 4.0 Vdc to 5.5Vdc. Current Limit Rating: 3.3 A.	UL 62368-1, IEC 62368-1(ed.2), EN 62368-1:2014
PTC Polyswitches (F4701) for HDMI port use	Littelfuse Inc.	1206L050	6Vdc, 0.5A	UL 1434, EN 60730-1

Seção 77:

Componente/Component	Fabricante/Manufacturer	Tipo/Modelo Type/Model	Características técnicas/ Technical data	Norma/ Standard
S01. Connectors and Receptacles (secondary SELV circuits)	Interchangeable	Interchangeable	Copper alloy pins housed in bodies of plastic rated V-2 min	UL94
S01a. Connectors and Receptacles (secondary SELV circuits)	Interchangeable	Interchangeable	Min. 30Vac	UL498, UL1977.
S02. Internal Plastic Part Materials	Interchangeable	Interchangeable	Min. V-2 or HF-2	UL94
S03. Interconnecting Cable (primary) (telecom)	Interchangeable	Interchangeable	Min. 105 degree C, 300 V, max 3.05 m long, jacketed, VW-1 or FT-1	UL758
S04. Label	Interchangeable	Interchangeable	70 degree C if max. surface temperature not specified.	UL969
S04a. Label	Interchangeable	Interchangeable	Rating was engraved on the enclosure directly	--

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Data de Emissão / Date of Issue 12 de Maio de 2020 / May 12, 2020

Página / Page **35/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
*Certificate of conformity valid with pages from 1 to 45*

Componente/Component	Fabricante/Manufacturer	Tipo/Modelo Type/Model	Características técnicas/Technical data	Norma/Standard
S04b. Label	Interchangeable	Interchangeable	Molded as part of enclosure or label, Hot stamping, laser etching, silk screened or printed by ink.	--
S04c. Label (Laser Carving)	Interchangeable	Interchangeable	Laser carved on enclosure directly.	--
S05. Printed Wiring board	Interchangeable	Interchangeable	V-1 min.	UL796
S05a. Plastic Material of Flexible Printed Wiring	Interchangeable	Interchangeable	V-2 min. or VTM-2 min. when no components mounted on surface	UL94, UL746C, UL746E, UL746F
S05b. Flexible Printed Wiring, alternate	Interchangeable	Interchangeable	V-2 min. or VTM-2 min. when no components mounted on surface	UL796, UL796F
S05c. Flexible Printed Wiring, alternate	Interchangeable	Interchangeable	V-1 min. or VTM-1 min. when components mounted on surface	UL796, UL796F
S06. Wiring, internal secondary ELV/SELV circuits	--	--	FEP, PTFE, PVC, TFE, neoprene, polyimide or marked VW-1; min 30 V, 60 degree C.	UL758
S07. Power supply cord (Optional)	Interchangeable	Interchangeable	No. 18 AWG min., Detachable, min. 1.5 m. max. 4.5 m (14.76 ft.) long, Type SVT or SJT or SPT-2 flexible cord, if one end terminated in NEMA 5-15P grounding type attachment plug; if one end terminated in NEMA 6-15P grounding type attachment plug, the other end in an appliance coupler.	UL62, UL498, or UL817
01.LCD Panel	LG DISPLAY CO LTD	LP133WF2	13.3 inch LED TFT	UL 60950-1
02.LCD Panel (Alternate)	Interchangeable	Interchangeable	13.3 inch LED TFT	UL 60950-1
03.Speaker	Interchangeable	Interchangeable	Two provided. Each 4 Ohm, max., 2.5 W	Evaluated in this Application
06.Solid Stare Drive (SSD) (Optional)	INTEL CORP	SSDSA1*, SSDSA2*, SSDSC1*, SSDSC2*, SSDMA*, SSDMC*, SSDPE*, SSDPED*, SSDSCMMW*, SSDSCI*, SSDSCJ*, SSDSCK*, where * can be optional letters or numbers used to identify features such as memory type, size (thickness, width) and identify details not critical to the compliance of the drive.	3.3 Vdc, 5 Vdc, and/or 12 Vdc	UL 60950-1
06a. Solid Stare Drive (SSD) (Optional)	SAMSUNG ELECTRONICS CO LTD	MZ-N***** (Where "" may be any alphanumeric character and/or slash and/or blank.)	3.3 Vdc	UL 60950-1
06b. Solid Stare Drive (SSD) (Optional)	Interchangeable	Interchangeable	3.3 Vdc, 5 Vdc, and/or 12 Vdc	UL 60950-1
07a. AC/DC adapter (Alternate)	Chicony Power Technology Co., Ltd. / Lenovo	ADLX65YCC3A, ADLX65YCC2A	Input : AC 100-240V; 50-60Hz; 1.8A; Output: 2A 5V or 2A 9V or 3A 15V or 3.25A 20V	UL/IEC 60950-1, IEC/UL 62368-1 2nd
07b. AC/DC adapter (Alternate)	Chicony Power Technology Co., Ltd. / Lenovo	ADLX45YCC3A, ADLX45YCC2A	Input : AC 100-240V; 50-60Hz; 1.3A; Output: 2A 5V or 2A 9V or 3A 15V or 2.25A 20V	IEC/UL 60950-1, IEC/UL 62368-1 2nd

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Data de Emissão / Date of Issue 12 de Maio de 2020 / May 12, 2020

Página / Page **36/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
*Certificate of conformity valid with pages from 1 to 45*

Componente/Component	Fabricante/Manufacturer	Tipo/Modelo Type/Model	Características técnicas/ Technical data	Norma/ Standard
07c. AC/DC adapter (Alternate)	Lite-On Technology Corporation / Lenovo	ADLX45YLC3A, 4X20M26256, 4X20M26265, PA-1450-34YX, (Y= A-Z, Blank or hyphen; X= 0-9, A-Z, Blank or hyphen), SA10E75841, 00HM663, ADLX45YLC2A, PA-1450-35YX, (Y= A-Z, Blank or hyphen; X= 0-9, A-Z, Blank or hyphen), SA10E75842, 00HM664	Input : AC 100-240V; 1.3A; 50-60Hz; Output: DC 20V; 2.25A, 15V; 3A, 9V; 2A, 5V; 2A	IEC/UL 60950-1, IEC/UL 62368-1 2nd
07d. AC/DC adapter (Alternate)	Lite-On Technology Corporation / Lenovo	ADLX65YLC2A, PA-1650-47YX, (Y=A-Z, Blank or hyphen; X= 0-9, A-Z, Blank or hyphen), , SA10M13948, 01FR025 ADLX65YLC3A, 4X20M26272, 4X20M26281, PA-1650-46YX, (Y= A-Z, Blank or hyphen; X= 0-9, A-Z, Blank or hyphen), SA10M13945, 01FR024, SA10J20147, 00PC748	Input : AC 100-240V; 1.8A; 50-60Hz; Output: DC 20V; 3.25A, 15V; 3A, 9V; 2A, 5V; 2A	IEC/UL 60950-1, IEC/UL 62368-1 2nd
07e. AC/DC adapter (Alternate)	Acbel Polytech Inc. / Lenovo	ADLX45YAC3A, P/N: SA10E75845, FRU P/N:00HM667, , Korea Option P/N:4X20M26256, China Option P/N:4X20M26265 ADLX45YAC2A, P/N: SA10E75846, FRU P/N: 00HM668	Input : AC 100-240V; 50-60Hz; 1.2A; Output: DC 5V/2.0A or 9V/2.0A or 15V/3.0A or 20V/2.25A	IEC/UL 60950-1, IEC/UL 62368-1 2nd
07f. AC/DC adapter (Alternate)	Acbel Polytech Inc. / Lenovo	ADLX65YAC3ALC/ LI PN: SA10M13943, FRU PN: 01FR028, , Korea Option PN: 4X20M26272, China Option PN: 4X20M26281 ADLX65YAC2A, LC / LI PN: SA10M13949, FRU PN: 01FR029	Input : AC 100-240V; 50-60Hz; 1.8A; Output: DC 5V/2A, 9V/2A, 15V/3A, 20V/3.25A	IEC/UL 60950-1, IEC/UL 62368-1 2nd
07g. AC/DC adapter (Alternate)	Delta Electronics, Inc.	ADLX45YDC3A, ADLX45YDC2A	Input: 100-240V~, 1.2A, 50-60Hz; Output: 20Vdc/2.25A, 15Vdc/3A, 9Vdc/2A, 5Vdc/2A	IEC/UL 60950-1, IEC/UL 62368-1 2nd
07h. AC/DC adapter (Alternate)	Delta Electronics, Inc.	ADLX65YDC3A, ADLX65YDC2A, ADP-65UD B	Input: 100-240V~, 1.8A, 50-60Hz; Output: 20Vdc/3.25A, 15Vdc/3A, 9Vdc/2A, 5Vdc/2A	IEC/UL 60950-1, IEC/UL 62368-1 2nd
07i. AC Adapter (Optional) (Alternate)	Interchangeable	Interchangeable	O/P rated: 20 Vdc, 2.25 A. Evaluated for use up to 5000 m and minimum 35 degree C.	IEC/UL 60950-1, IEC/UL62368-1 2nd
07j. AC Adapter (Optional) (Alternate)	Interchangeable	Interchangeable	O/P rated: 20 Vdc, 3.25 A. Evaluated for use up to 5000 m and minimum 35 degree C.	IEC/UL 60950-1, IEC/UL62368-1 2nd
08. Enclosure Opening dimension	--	--	See Enclosure ID 4-02 for detail	--
08-1. Enclosure (LCD Panel cover)	Interchangeable	Interchangeable	Metal alloy, min. 1.0 mm thickness	Evaluated in this Application
09. Enclosure (LCD bezel, uppercase, bottom case)	MITSUBISHI ENGINEERING-PLASTICS CORP	MB1700+ (+) - Suffix optional, exceptions: The following cannot be used as optional suffixes: "T" for grade 2030, "A" for 1501, 1502, 1511, 1521 & 2502, "N" for NXG5050, NXG5030, NXG5501, & CGF- (v)(u), "S1" for F20- 54.	V-0, min. 0.75mm thickness, RTI =60degree C	UL 94, UL746C

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41-IC-F0033 rev 12.0

# CERTIFICADO DE CONFORMIDADE

## CERTIFICATE OF CONFORMITY

**Certificado No. / Certificate No.** **UL-BR 20.0714**

**Data de Emissão / Date of Issue** 12 de Maio de 2020 / May 12, 2020

**Página / Page** **37/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
**Certificate of conformity valid with pages from 1 to 45**

Componente/Component	Fabricante/Manufacturer	Tipo/Modelo Type/Model	Características técnicas/ Technical data	Norma/ Standard
09. Enclosure (LCD bezel, uppercase, bottom case) (Alternate)	MITSUBISHI ENGINEERING-PLASTICS CORP	TMB1615+ (+) - Suffix optional, exceptions: The following cannot be used as optional suffixes: "T" for grade 2030, "A" for 1501, 1502, 1511, 1521 & 2502, "N" for NXG5050, NXG5030, NXG5501, & CGF-(v)(u), "S1" for F20-54.	V-0, min. 1.0 mm thickness, RTI =85degree C	UL 94, UL746C
09. Enclosure (LCD bezel, uppercase, bottom case) (Alternate)	E I DUPONT DE NEMOURS & CO INC	HTNFR55G50NHLW	V-0, min. 0.4 mm thickness, RTI =65degree C	UL 94, UL746C
09-1. Metallized Coating	Shanghai Weihong Model Plastics Mfr Co Ltd	Sputtering	0.1-2.0 Mils,	UL746C
10. RTC Battery	Vic-Dawn Enterprise CO., LTD.	CR2032	3Vdc; max. abnormal charging current 10 mA	UL 1642
10a. RTC Battery (Alternate)	Jih Hong Technology Co., Ltd	CR2032	3Vdc; max. abnormal charging current 10 mA	UL 1642
10b. RTC Battery (Alternate)	Double Best Co Ltd	CR2032	3Vdc; max. abnormal charging current 10 mA	UL 1642
10c. RTC Battery (Alternate)	MITSUBISHI ELECTRIC CORP	CR2032	3Vdc; max. abnormal charging current 10 mA	UL 1642
10d. RTC Battery (Alternate)	Mitsubishi Electric Home Appliance Co., Ltd	CR2032	3Vdc; max. abnormal charging current 10 mA	UL 1642
10e. RTC Battery (Alternate)	PANASONIC CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA	CR2032	3Vdc; max. abnormal charging current 10 mA	UL 1642
10f. RTC Battery (Alternate)	SONY ENERGY DEVICES CORP	CR2032	3Vdc; max. abnormal charging current 10 mA	UL 1642
10g. RTC Battery (Alternate)	Interchangeable	CR2032	3Vdc; max. abnormal charging current 10 mA Reverse Current Protection provided by diode and 1kohm resistor	UL 1642
11. Battery pack (Li-ion)	CELPXPERT ENERGY CORP (Lenovo)	L17C3P53	11.1Vdc, 45Wh, 4120mAh	IEC62133, IEC/UL 60950-1UL 2054
11a. Battery pack (Li-ion) (Alternate)	LG CHEM, LTD (Lenovo)	L17L3P55	11.1Vdc 4.05Ah/45Wh	IEC62133, IEC/UL 60950-1UL 2054
11b. Battery pack (Li-ion) (Alternate)	SIMPLOTECHNOLOGY CO LTD (Lenovo)	L17M3P55	11.1Vdc 4.08Ah or 4.12Ah or 45Wh	IEC/UL 60950-1, UL 2054, IEC/UL62368
12. CPU cooling fan	ASIA VITAL COMPONENTS CO.,LTD.	BAZD0606Z5HV, Z be can B or R; V=ABCD where A, B, C, D may be A-Z, 0-9 or -.	5 Vdc, max. 0.5A, Min. 3.24 CFM	UL 507
12a. CPU cooling fan (Alternate)	Delta Electronics, Inc.	ND55C48(Y11) the number after Y represents digit, each digit may be A through Z, 0 through 9, "-" or blank.	5 Vdc, max. 0.45A, Min. 0.58 CFM	UL 507
12b. CPU fan (Alternate)	Interchangeable	Interchangeable	5 Vdc, Max. 0.5A, Min. 0.58 CFM	UL 507
13. Polyswitch for HDMI port	POLYTRONICS TECHNOLOGY CORP	SPR-P110(\$) (\$ ) May be followed by symbol "-" and up to two alphanumeric characters denoting a resistance range or customer code.	6 Vdc, Ih= 1.1 A, It= 1.8 A	UL 1434, IEC60730-1:2000

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81-IC-F0033 rev 12.0



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## CERTIFICATE OF CONFORMITY

Certificado No. / Certificate No. **UL-BR 20.0714**

Data de Emissão / Date of Issue 12 de Maio de 2020 / May 12, 2020

Página / Page **38/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
*Certificate of conformity valid with pages from 1 to 45*

Componente/Component	Fabricante/Manufacturer	Tipo/Modelo Type/Model	Características técnicas/ Technical data	Norma/ Standard
13a. Polyswitch for HDMI port (Alternate)	LITTELFUSE INC	0805L110UL, 0805L110UL##, 0805L110UL#***** where ## is Up to two alphanumeric characters denoting packing quantity and packing method, where ***** is Up to five alphanumeric characters denoting a product lead type and customer code.	6 Vdc, Ih= 1.1 A, It= 1.8 A	UL 1434, IEC60730-1:2000
13b. Polyswitch for HDMI port (Alternate)	Bourns Inc.	MF-PSMF110X	6 Vdc, Ih= 1.1 A, It= 2.2 A	UL 1434, IEC60730-1:2000
13c. Polyswitch for HDMI port (Alternate)	Interchangeable	Interchangeable	6 Vdc, Ih= max 1.1 A, It= max 2.2 A, CA3	UL 1434, IEC60730-1:2000
14. Power Distribution Switch for USB Port	TEXAS INSTRUMENTS INC	TPS2002CDRC, TPS2003CDRC, TPS2060CDGN, TPS2062CD, TPS2066CDGN, TPS2062CDRB-2, TPS2064CDGN-2, TPS2064CDGN, TPS2066CD, TPS2066CDGN-2, TPS2062CDGN	Rated 4.5-5.5 Vdc, output continuous rating: 0.5 - 2.0 A, output current limit: 1.30 - 3.95 A per output channel, CI.III, SELV, complied with Annex CC	Subject 2367, IEC60950-1 2nd
14a. Power Distribution Switch for USB port (Alternate)	TEXAS INSTRUMENTS INC	TPS2543, TPS2544, TPS2545, TPS2546, maybe followed by Q, may be followed by RTE, may be followed by R or T, may be followed by Q1	4.5-5.5 Vdc, Cont. Current: 2.5A, Prot.Current: 3.1A	Subject 2367, IEC60950-1 2nd
14b. Power Distribution Switch for USB port (Alternate)	TEXAS INSTRUMENTS INC	TPS2069. May be followed by other characters that do not impact the safety feature of the device.	4.5-5.5 Vdc, Cont.Current: 1.5A, Prot.Current: 2.7A	Subject 2367, IEC60950-1 2nd
14c. Power Distribution Switch for USB port (Alternate)	TEXAS INSTRUMENTS INC	TPS2069. May be followed by other characters that do not impact the safety feature of the device.-2	4.5-5.5 Vdc, Cont. Current: 1.5A, Prot.Current: 2.86A	Subject 2367, IEC60950-1 2nd
14d. Power Distribution Switch for USB port (Alternate)	ROHM CO LTD	BD82034FVJ, may be followed by additional suffixes	4.5-5.5 Vdc, Cont.Current: 1.5A, Prot.Current: 2.86A	Subject 2367, IEC60950-1 2nd

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41-IC-F0033 rev 12.0



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## CERTIFICATE OF CONFORMITY

Certificado No. / Certificate No. **UL-BR 20.0714**

Data de Emissão / Date of Issue 12 de Maio de 2020 / May 12, 2020

Página / Page **39/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
*Certificate of conformity valid with pages from 1 to 45*

14e. Power Distribution Switch for USB port (Alternate)	TEXAS INSTRUMENTS INC	SN1701012, SN1701013, SN1702024, SN1702025, SN1702026, SN1702027, SN1702028, SN1702029, SN1702030, SN1702031, SN1702032, SN1702033, SN1702034, SN1702035, SN1702036, TPS65987D, TPS65987S, TPS65988, may be followed by other characters that do not impact the safety feature of the device.	Models TPS65988, SN1702036, SN1702033, SN1702027, SN1702030, SN1701012  Input Voltage: 1. PPHV1: 4.5 to 6 VDC, 1 to 4 A 2. PPHV2: 4.5 to 6 VDC, 1 to 4 A 3. PPCABLE1: 2.95 to 5.5 Vdc, 0.6 A 4. PPCABLE2: 2.95 to 5.5 Vdc, 0.6 A 5. VIN_3V3: 3.3 VDC  Output Continuous Rating: 1. VBUS1: 4.5 to 6 VDC, 1 to 4 A, with PPHV1 input 2. VBUS2: 4.5 to 6 VDC, 1 to 4 A, with PPHV2 input 3. C1CC1/C1CC2: 2.95 to 5.5 Vdc, 0.6 A, with PPCABLE1 input 4. C2CC1/C2CC2: 2.95 to 5.5 Vdc, 0.6 A, with PPCABLE2 input  Output Current Limit: 1. VBUS1: 4.5 to 6 VDC, 1.39 to 4.91 A, with PPHV1 input 2. VBUS2: 4.5 to 6 VDC, 1.39 to 4.91 A, with PPHV2 input 3. C1CC1/C1CC2: 2.95 to 5.5 Vdc, 0.9 A, with PPCABLE1 input 4. C2CC1/C2CC2: 2.95 to 5.5 Vdc, 0.9 A, with PPCABLE2 input  Ambient: -40 to 75degree C  Models TPS65987D, SN1702035, SN1702032, SN1702026, SN1702029, SN1701013  Input Voltage: 1. PPHV1: 4.5 to 6 VDC, 1 to 4 A 2. PPHV2: 4.5 to 6 VDC, 1 to 4 A 3. PPCABLE1: 2.95 to 5.5 Vdc, 0.6 A 4. VIN_3V3: 3.3 VDC  Output Continuous Rating: 1. VBUS1: 4.5 to 6 VDC, 1 to 4 A, with PPHV1 input 2. VBUS2: 4.5 to 6 VDC, 1 to 4 A, with PPHV2 input 3. C1CC1/C1CC2: 2.95 to 5.5 Vdc, 0.6 A, with PPCABLE1 input  Output Current Limit: 1. VBUS1: 4.5 to 6 VDC, 1.39 to 4.91 A, with PPHV1 input 2. VBUS2: 4.5 to 6 VDC, 1.39 to 4.91 A, with PPHV2 input 3. C1CC1/C1CC2: 2.95 to 5.5 Vdc, 0.9 A, with PPCABLE1 input	Subject 2367, IEC60950-1 2nd
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41-IC-F0033 rev 12.0

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## CERTIFICATE OF CONFORMITY

Certificado No. / Certificate No. **UL-BR 20.0714**

Data de Emissão / Date of Issue 12 de Maio de 2020 / May 12, 2020

Página / Page **40/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
*Certificate of conformity valid with pages from 1 to 45*

Componente/Component	Fabricante/Manufacturer	Tipo/Modelo Type/Model	Características técnicas/ Technical data	Norma/ Standard
			Ambient: -40 to 75degree C	
14f. Power Distribution Switch for USB port (Alternate)	PERICOM TECHNOLOGY (SHANGHAI) CO LTD	PI5USB2544ZHE, PI5USB2544ZHEX, PI5USB2544AZHE, PI5USB2546ZHE, PI5USB2546ZHEX, PI5USB2546AZHE, PI5USB2546AZHEX, PI5USB2547ZHE, PI5USB2547ZHEX, PI5USB2548ZHE, PI5USB2548ZHEX	4.5-5.5 Vdc, Cont.Current: 30mA to 2.5A, Prot. Current: 100mA to 3.18A	Subject 2367, IEC60950-1 2nd
15. Internal Plastic Mesh	Mitsubishi Chemical Corporation	HF-01	0.04-0.24mm, VTM-0, 105 degree C, Aperature=410um, Line Diameter=80um, thickness=120um, see enclosure ID 4-03 for overall dimension	UL94, UL746C
16. Internal Plastic Mesh	--	--	Min. V-0, see enclosure ID4-04 for overall dimension	UL94, UL746C
17. Heatsink	--	--	Copper or Copper alloy or Steel, See Enclosure ID4-01 for detail.	--
18. IR Camera (Optional)	Interchangeable	Interchangeable	PWB: Min. V-1, comply with IEC62471 of Exempt Group	--
18-1. LED Chip	OSRAM	SFH 4715A	1.5A, 1.9Vdc, Wave length= 850nm	--
18a. IR Camera (Alternate) (Optional)	Interchangeable	Interchangeable	PWB: Min. V-1, comply with IEC62471 of Exempt Group	--
Adapter (Alternate)	Chicony Power Technology Co Ltd	ADLX65YCC2D	I/P: 100-240 Vac, 1.8A, 50-60 Hz; O/P: 20 Vdc, 3,25 A / 15 Vdc, 3 A / 9 Vdc, 2 A Class II, 40° C Altitude: 5000 m	-
Adapter (Alternate)	Chicony Power Technology Co Ltd	ADLX65YCC3D	I/P: 100-240 Vac, 1.8A, 50-60 Hz; O/P: 20 Vdc, 3,25 A / 15 Vdc, 3 A / 9 Vdc, 2 A / 5 Vdc, 2 A Class I, 40° C Altitude: 5000 m	-
Adapter (Alternate)	Delta Electronics, Inc.	ADLX65YDC3D, ADLX65YDC2D	I/P: 100-240 Vac, 1.8A, 50-60 Hz; O/P: 20 Vdc, 3,25 A / 15 Vdc, 3 A / 9 Vdc, 2 A / 5 Vdc, 2 A Class I, 40° C Altitude: 5000 m	-
Adapter (Alternate)	Lite-On Technology Corp	ADLX65YLC2D	I/P: 100-240 Vac, 1.8A, 50-60 Hz; O/P: 20 Vdc, 3,25 A / 15 Vdc, 3 A / 9 Vdc, 2 A / 5 Vdc, 2 A Class I, 40° C Altitude: 5000 m	-
DC Fan	Toshiba Home Technology Corp.	M-266C-XXXX	5 Vdc, 0,38 A, 1.9 CFM min.	-
DC Fan (Alternate)	Asia Vital Components Co.,	BAPA0706R5HV, V= ABCD where A, B, C, D may be A-Z, 0-9 or "-."	5 Vdc, 0,5 A, 3,42 CFM min.	-

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41-IC-F0033 rev 12.0

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Certificado No. / Certificate No. **UL-BR 20.0714**

Data de Emissão / Date of Issue 12 de Maio de 2020 / May 12, 2020

Página / Page **41/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
*Certificate of conformity valid with pages from 1 to 45*

### SEÇÃO 92

Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity(1)
Adapter (For 20Vdc, 2.25A)	CHICONY POWER TECHNOLOGY CO LTD	ADLX45YCC2D	I/P: 100-240Vac, 1.3A, 50-60Hz; O/P: 20Vdc, 2.25A / 15Vdc, 3A / 9Vdc, 2A / 5Vdc, 2A Class II, 40 oC Altitude: 5000m	IEC 60950-1: 2005 /AMD2: 2013, EN 60950-1: 2006+A11+A1+ A12+A2, IEC 62368-1 (ed.2), EN 62368-1: 2014/A11:2017, UL 60950-1, UL 62368-1	CB by Nemko (NO102327); CB by Demko (DK-73341-UL), UL
Adapter (For 20Vdc, 2.25A) (Alternate)	CHICONY POWER TECHNOLOGY CO LTD	ADLX45YCC3D	I/P:100-240Vac, 1.3A, 50-60Hz; O/P: 20Vdc, 2.25A / 15Vdc, 3A / 9Vdc, 2A / 5Vdc, 2A Class I, 40 oC Altitude: 5000m	IEC 60950-1: 2005/AMD2: 2013, EN 60950-1: 2006+A11+A1+ A12+A2, IEC 62368-1 (ed.2), EN 62368-1 2014/A11 :2017, UL 60950-1, UL 62368-1	CB by Nemko (NO102328); CB by Demko (DK-73342-UL), UL
Adapter (For 20Vdc, 2.25A) (Alternate)	Chicony Power Technology Co., Ltd	ADLX45YCC2A	I/P: 100-240Vac; 50-60Hz, 1.3A, O/P: 5Vdc/2A or 9Vdc/2A or 15Vdc/3A or 20Vdc/2.25A. Class II, 40 oC Altitude: 5000m	IEC 60950-1: 2005/ AMD2:2013, EN 60950- 1:2006+A11+A1+ A12+A2,IEC 62368-1 (ed.2), EN 62368-1: 2014/A11:2017, UL 60950-1, UL 62368-1	CB by Nemko (NO94051); CB by Demko (DK- 64097-UL), UL
Adapter (For 20Vdc, 2.25A) (Alternate)	Chicony Power Technology Co., Ltd	ADLX45YCC3A	I/P: 100-240Vac; 50-60Hz, 1.3A, O/P: 5Vdc/2A or 9Vdc/2A or 15Vdc/3A or 20Vdc/2.25A. Class I, 40 oC Altitude: 5000m	IEC 60950-1: 2005/ AMD2:2013, EN 60950-1: 2006+A11+A1+ A12+A2, IEC 62368-1 (ed.2), EN 62368-1:2014/A11: 2017, UL 60950-1, UL 62368-1	CB by Nemko (NO94050); CB by Demko (DK- 64093-UL), UL
Adapter (For 20Vdc, 2.25A) (Alternate)	Delta Electronics, Inc.	ADLX45YDC3D, ADLX45YDC2D	I/P: 100-240Vac, 1.2A, 50-60Hz; O/P: 20Vdc, 2.25A / 15Vdc, 3A / 9Vdc, 2A / 5Vdc, 2A Class II with functional earth for model ADLX45YDC3D , Class II for model ADLX45YDC2D , 40 oC Altitude: 5000m	IEC 60950-1: 2005/AMD2: 2013, EN 60950-1: 2006+A11+A1+ A12+A2, IEC 62368-1 (ed.2), EN 62368-1: 2014/A11:2017, UL 60950-1, UL 62368-1	CB by TUVRH (JPTUV- 088399); CB by TUVRH (JPTUV- 088525), UL

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41-IC-F0033 rev 12.0

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**Certificado No. / Certificate No.** **UL-BR 20.0714**

**Data de Emissão / Date of Issue** 12 de Maio de 2020 / May 12, 2020

**Página / Page** **42/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
**Certificate of conformity valid with pages from 1 to 45**

Adapter (For 20Vdc, 2.25A) (Alternate)	Delta Electronics, Inc	ADLX45YDC3A, ADLX45YDC2A	I/P: 100-240Vac; 50-60Hz. 1.2A, O/P: 5Vdc/2A or 9Vdc/2A or 15Vdc/3A or 20Vdc/2.25A. Class II. 40 oC Altitude: 5000m	IEC 60950-1: 2005/AMD2: 2013, EN 60950-1: 2006+A11+A1+ A12+A2, IEC 62368-1 (ed.2), EN 62368-1: 2014/A11:2017, UL 60950-1, UL 62368-1	CB by Demko (DK-57966-UL); CB by Demko (DK-63441-UL), UL
Adapter (For 20Vdc, 2.25A) (Alternate)	Lite-On Technology Corporation	ADLX45YLC2D	I/P: 100-240Vac, 1.3A, 50-60Hz; O/P: 20Vdc, 2.25A / 15Vdc, 3A / 9Vdc, 2A / 5Vdc, 2A Class II, 40 oC Altitude: 5000m	IEC 60950-1: 2005/AMD2: 2013, EN 60950-1: 2006+A11+A1+ A12+A2, IEC 62368-1 (ed.2), EN 62368-1:2014/A11: 2017, UL 60950-1, UL 62368-1	CB by Demko (DK-74396-UL); CB by Demko (DK-74550-UL), UL
Adapter (For 20Vdc, 2.25A) (Alternate)	Lite-On Technology Corporation	ADLX45YLC3D	I/P: 100-240Vac, 1.3A, 50- 60Hz; O/P: 20Vdc, 2.25A / 15Vdc, 3A / 9Vdc, 2A / 5Vdc, 2A Class I, 40 oC Altitude: 5000m	IEC 60950-1: 2005/ AMD2: 2013, EN 60950-1: 2006+A11+A1+ A12+A2, IEC 62368-1 (ed.2), EN 62368-1: 2014/A11:2017, UL 60950-1, UL 62368-1	CB by Demko (DK-73964-UL); CB by Demko (DK-73960-UL), UL
Adapter (For 20Vdc, 2.25A) (Alternate)	Lite-On Technology Corporation	ADLX45YLC2A	I/P: 100-240Vac; 50-60Hz. 1.3A, O/P: 5Vdc/2A or 9Vdc/2A or 15Vdc/3A or 20Vdc/2.25A. Class II. 40 oC Altitude: 5000m	IEC 60950-1: 2005/ AMD2:2013, EN 60950-1: 2006+A11+A1+ A12+A2, IEC 62368-1 (ed.2), EN 62368- 1 :2014/A11:2017, UL 60950-1, UL 62368-1	CB by TUVRh (JPTUV- 073708); CB by Demko (DK- 63136-UL), UL
Adapter (For 20Vdc, 2.25A) (Alternate)	Lite-On Technology Corporation	ADLX45YLC3A	I/P: 100-240Vac; 50-60Hz. 1.3A, O/P: 5Vdc/2A or 9Vdc/2A or 15Vdc/3A or 20Vdc/2.25A. Class I. 40 oC Altitude: 5000m	IEC 60950-1: 2005/AMD2:2013, EN 60950-1: 2006+A11+A1+ A12+A2, IEC 62368-1 (ed.2), EN 62368-1: 2014/A11:2017, UL 60950-1, UL 62368-1	CB by TUVRh (JPTUV- 073540); CB by Demko (DK- 63151-UL), UL
Adapter (For 20Vdc, 2.25A) (Alternate)	Acbel Polytech Inc.	ADLX45YAC2A	I/P: 100-240Vac; 50-60Hz. 1.2A, O/P: 5Vdc/2A or 9Vdc/2A or 15Vdc/3A or 20Vdc/2.25A. Class II. 40 oC Altitude: 5000m	IEC 60950-1: 2005/AMD2: 2013, EN 60950-1: 2006+A11+A1+ A12+A2, IEC 62368-1 (ed.2), EN 62368-1: 2014/A11:2017, UL 60950-1, UL 62368-1	CB by TUVRh (JPTUV- 075061); CB by TUVRh (JPTUV- 080335), UL

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41-IC-F0033 rev 12.0

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Certificado No. / Certificate No. **UL-BR 20.0714**

Data de Emissão / Date of Issue 12 de Maio de 2020 / May 12, 2020

Página / Page **43/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
*Certificate of conformity valid with pages from 1 to 45*

Adapter (For 20Vdc, 2.25A) (Alternate)	Acbel Polytech Inc.	ADLX45YAC3A	I/P: 100-240Vac; 50-60Hz. 1.2A, O/P: 5Vdc/2A or 9Vdc/2A or 15Vdc/3A or 20Vdc/2.25A. Class I. 40 oC Altitude: 5000m	IEC 60950-1: 2005/AMD2: 2013, EN 60950-1: 2006+A11+A1+ A12+A2, IEC 62368-1 (ed.2), EN 62368-1: 2014/A11:2017, UL 60950-1, UL 62368-1	CB by TUVRh (JPTUV-075056); CB by TUVRh (JPTUV- 080344), UL
Adapter (For 20Vdc, 2.25A) (Alternate)	Chicony Power Technology Co., Ltd.	ADLX45YCC2D, ADLX45YCC2G	Input: 100-240V~ 1.3A 50-60Hz, Cl. II Output: 2.25A 20Vdc /3A 15Vdc /2A 9Vdc /2A 5Vdc. 40 oC Altitude: 5000m	IEC 60950-1: 2005/AMD2:2 013, IEC 62368-1: 2014, UL 62368-1	CB by Nemko (NO102327/A2/ M1), CB by UL (DK-73341-M2-UL), UL
Adapter (For 20Vdc, 2.25A) (Alternate)	Chicony Power Technology Co., Ltd.	ADLX45YCC3D; ADLX45YCC3G	I/P: 1.3A 100-240V~ 50-60Hz O/P: 2.25A 20Vdc/3A 15Vdc /2A 9Vdc /2A 5Vdc Cl. I., 40 oC Altitude: 5000m	IEC 60950-1: 2005/AMD2:2 013, IEC 62368-1: 2014, UL 62368-1	CB by Nemko (NO102328/A1/ M1), CB by UL (DK- 73342-M1-UL), UL
Adapter (For 20Vdc, 3.25A) (Alternate)	CHICONY POWER TECHNOLOGY CO LTD	ADLX65YCC2D	I/P: 100-240Vac, 1.8A, 50-60Hz; O/P: 20Vdc, 3.25A / 15Vdc, 3A / 9Vdc, 2A / 5Vdc, 2A Class II, 40 oC Altitude: 5000m	IEC 60950-1: 2005/AMD2: 2013, EN 60950-1: 2006+A11+A1+ A12+A2, IEC 62368-1 (ed.2), EN 62368-1: 2014/A11:2017, UL 60950-1, UL 62368-1	CB by Nemko (NO102312); CB by Demko (DK-73335-UL), UL
Adapter (For 20Vdc, 3.25A) (Alternate)	CHICONY POWER TECHNOLOGY CO LTD	ADLX65YCC3D	I/P: 100-240Vac, 1.8A, 50-60Hz; O/P: 20Vdc, 3.25A / 15Vdc, 3A / 9Vdc, 2A / 5Vdc, 2A Class I, 40 oC Altitude: 5000m	IEC 60950-1: 2005/AMD2: 2013, EN 60950-1: 2006+A11+A1+ A12+A2, IEC 62368-1 (ed.2), EN 62368-1: 2014/A11:2017, UL 60950-1, UL 62368-1	CB by Nemko (NO102313); CB by Demko (DK-73338-UL), UL
Adapter (For 20Vdc, 3.25A) (Alternate)	Chicony Power Technology Co., Ltd	ADLX65YCC2A	I/P: 100-240Vac; 50-60Hz. 1.8A, O/P: 5Vdc/2A or 9Vdc/2A or 15Vdc/3A or 20Vdc/3.25A. Class II. 40 oC Altitude: 5000m	IEC 60950-1: 2005/AMD2: 2013, EN 60950-1: 2006+A11+A1+ A12+A2, IEC 62368-1 (ed.2), EN 62368-1: 2014 /A11:2017, UL 60950-1, UL 62368-1	CB by Nemko (NO94246); CB by Demko (DK-63995-UL), UL
Adapter (For 20Vdc, 3.25A) (Alternate)	Chicony Power Technology Co., Ltd	ADLX65YCC3A	I/P: 100-240Vac; 50-60Hz. 1.8A, O/P: 5Vdc/2A or 9Vdc/2A or 15Vdc/3A or 20Vdc/3.25A. Class I. 40 oC Altitude: 5000m	IEC 60950-1: 2005/AMD2: 2013, EN 60950-1: 2006+A11+A1+ A12+A2, IEC 62368-1 (ed.2), EN 62368-1: 2014/A11:2017, UL 60950-1, UL 62368-1	CB by Nemko (NO94247); CB by Demko (DK- 63993-UL), UL

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41-IC-F0033 rev 12.0



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## CERTIFICATE OF CONFORMITY

Certificado No. / Certificate No. **UL-BR 20.0714**

Data de Emissão / Date of Issue 12 de Maio de 2020 / May 12, 2020

Página / Page **44/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
*Certificate of conformity valid with pages from 1 to 45*

Adapter (For 20Vdc, 3.25A) (Alternate)	Chicony Power Technology Co., Ltd.	ADLX65YSCC2A	I/P: 100-240Vac, 50-60Hz, 1.8 <sup>ø</sup> O/P: 5Vdc, 3A / 9Vdc, 3A / 15Vdc, 3A / 20Vdc, 3.25A, Class II, 40 oC Altitude: 5000m	IEC 60950-1: 2005/AMD2: 2013, EN 60950-1: 2006+A11+A12+A2, IEC 62368-1 (ed.2), EN 62368-1: 2014/A11:2017, UL 60950-1, UL 62368-1	CB by TUVRh (JPTUV- 096409), (JPTUV- 096534), UL
Adapter (For 20Vdc, 3.25A) (Alternate)	Chicony Power Technology Co., Ltd.	ADLX65YSCC3A	I/P: 100-240Vac, 50- 60Hz 1.8A O/P: 5Vdc, 3A / 9Vdc, 3A / 15Vdc, 3A / 20Vdc, 3.25A, Class I, 40 oC Altitude: 5000m	IEC 60950-1: 2005/AMD2: 2013, EN 60950-1: 2006+A11+A12+A2, IEC 62368-1 (ed.2), EN 62368-1: 2014/A11:2017, UL 60950-1, UL 62368-1	CB by TUVRh (JPTUV- 096407), (JPTUV- 096521), UL
Adapter (For 20Vdc, 3.25A) (Alternate)	Delta Electronics, Inc.	ADLX65YDC3D, ADLX65YDC2D	I/P: 100-240Vac, 1.8A, 50-60Hz; O/P: 20Vdc, 3.25A / 15Vdc, 3A / 9Vdc, 2A / 5Vdc, 2A Class II with functional earth for model ADLX45YDC3D, Class II for model ADLX45YDC2D, 40 oC Altitude: 5000m	IEC 60950-1: 2005/AMD2: 2013, EN 60950-1: 2006+A11+A12+A2, IEC 62368-1 (ed.2), EN 62368-1: 2014/A11:2017, UL 60950-1, UL 62368-1	CB by TUVRh (JPTUV- 088370); CB by TUVRh (JPTUV- 088549), UL
Adapter (For 20Vdc, 3.25A) (Alternate)	Delta Electronics, Inc.	ADLX65YDC2A, ADLX65YDC3A	I/P: 100-240Vac; 50-60Hz. 1.8A, O/P: 5Vdc/2A or 9Vdc/2A or 15Vdc/3A or 20Vdc/3.25A. Class II. 40 oC Altitude: 5000m	IEC 60950-1: 2005/AMD2: 2013, EN 60950-1: 2006+A11+A12+A2, IEC 62368-1 (ed.2), EN 62368-1: 2014/A11:2017, UL 60950-1, UL 62368-1	CB by TUVRh (JPTUV- 076078); CB by TUVRh (JPTUV- 076777), UL
Adapter (For 20Vdc, 3.25A) (Alternate)	Delta Electronics, Inc.	ADLX65YSDC2A	I/P: 100-240Vac, 1.8A, 50-60Hz O/P: 20Vdc, 3.25A / 15Vdc, 3A / 9Vdc, 3A / 5Vdc, 3A, Class II, 40 oC Altitude: 5000m	IEC 60950-1: 2005/AMD2: 2013, EN 60950-1: 2006+A11+A12+A2, IEC 62368-1(ed.2), EN 62368-1: 2014/A11:2017, UL 60950-1, UL 62368-1	CB by TUVRh (JPTUV- 097420), (JPTUV- 097518), UL
Adapter (For 20Vdc, 3.25A) (Alternate)	Delta Electronics, Inc.	ADLX65YSDC3A	I/P:100-240Vac, 1.8A, 50-60Hz O/P: 20Vdc, 3.25A / 15Vdc, 3A / 9Vdc, 3A / 5Vdc, 3A, Class I, 40 oC Altitude: 5000m	IEC 60950-1: 2005/ AMD2: 2013, EN 60950-1: 2006+A11+ A12+A2, IEC 62368-1 (ed.2), EN 62368-1: 2014/A11:2017, UL 60950-1, UL 62368-1	CB by TUVRh (JPTUV- 097420), (JPTUV- 097518), UL

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81-IC-F0033 rev 12.0

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## CERTIFICATE OF CONFORMITY

**Certificado No. / Certificate No.** **UL-BR 20.0714**

**Data de Emissão / Date of Issue** 12 de Maio de 2020 / May 12, 2020

**Página / Page** **45/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
**Certificate of conformity valid with pages from 1 to 45**

Adapter (For 20Vdc, 3.25A) (Alternate)	Lite-On Technology Corporation	ADLX65YLC2D	I/P: 100-240Vac, 1.8A, 50-60Hz; O/P: 20Vdc, 3.25A / 15Vdc, 3A / 9Vdc, 2A / 5Vdc, 2A Class II, 40 oC Altitude: 5000m	IEC 60950-1: 2005/ AMD2:2013, EN 60950-1: 2006+A11+A1+ A12+A2, IEC 62368-1 (ed.2), EN 62368-1: 2014/ A11:2017, UL 60950-1, UL 62368-1	CB by Demko (DK-73622-UL); CB by Demko (DK-73627-UL), UL
Adapter (For 20Vdc, 3.25A) (Alternate)	Lite-On Technology Corporation	ADLX65YLC3D	I/P: 100-240Vac, 1.8A, 50-60Hz; O/P: 20Vdc, 3.25A / 15Vdc, 3A / 9Vdc, 2A / 5Vdc, 2A Class I, 40 oC Altitude: 5000m	IEC 60950-1: 2005/ AMD2:2013, EN 60950-1: 2006+A11+A1+ A12+A2, IEC 62368-1 (ed.2), EN 62368-1: 2014/A11:2017, UL 60950-1, UL 62368-1	CB by Demko (DK-73466-M1- UL); CB by Demko (DK- 73473-M1- UL), UL
Adapter (For 20Vdc, 3.25A) (Alternate)	Lite-On Technology Corporation	ADLX65YLC2A	I/P: 100-240Vac; 50-60Hz, 1.8A, O/P: 5Vdc/2A or 9Vdc/2A or 15Vdc/3A or 20Vdc/3.25A. Class II. 40 oC Altitude: 5000m	IEC 60950-1: 2005/ AMD2:2013, EN 60950- 1: 2006+A11+A1+ A12+A2, IEC 62368-1 (ed.2), EN 62368-1: 2014/ A11:2017, UL 60950-1, UL 62368-1	CB by TUVRh (JPTUV- 074597-M1); CB by Demko (DK- 63201- UL), UL
Adapter (For 20Vdc, 3.25A) (Alternate)	Lite-On Technology Corporation	ADLX65YLC3A	I/P: 100-240Vac; 50-60Hz, 1.8A, O/P: 5Vdc/2A or 9Vdc/2A or 15Vdc/3A or 20Vdc/3.25A. Class I. 40 oC Altitude: 5000m	IEC 60950-1: 2005/AMD2: 2013, EN 60950-1: 2006+A11+A1+ A12+A2, IEC 62368-1 (ed.2), EN 62368-1: 2014/A11:2017, UL 60950-1, UL 62368-1	CB by TUVRh (JPTUV- 074484-A1); CB by Demko (DK- 63168- UL), UL
Adapter (For 20Vdc, 3.25A) (Alternate)	Lite-On Technology Corporation	ADLX65YSLC2A	I/P: 100-240Vac, 50-60Hz, 1.8A O/P: 20Vdc, 3.25A / 15Vdc, 3A / 9Vdc, 3A / 5Vdc, 3A, Class II, 40 oC Altitude: 5000m	IEC 60950-1: 2005/AMD2: 2013, EN 60950-1: 2006+A11+A1+ A12+A2, IEC 62368-1 (ed.2), EN 62368-1: 2014/A11:2017, UL 60950-1, UL 62368-1	CB by TUVRh (JPTUV- 096377), (JPTUV- 096374), UL
Adapter (For 20Vdc, 3.25A) (Alternate)	Lite-On Technology Corporation	ADLX65YSLC3A	I/P: 100-240Vac, 50- 60Hz, 1.8A O/P: 20Vdc, 3.25A / 15Vdc, 3A / 9Vdc, 3A / 5Vdc, 3A, Class I, 40 oC Altitude: 5000m	IEC 60950-1:2005/ AMD2:2013, EN 60950- 1:2006+A11+A1+ A12+A2, IEC 62368-1 (ed.2), EN 62368-1: 2014/A11:2017, UL 60950-1, UL 62368-1	CB by TUVRh (JPTUV- 096300), (JPTUV- 096303), UL
Adapter (For 20Vdc, 3.25A) (Alternate)	Acbel Polytech Inc.	ADLX65YAC2A	I/P: 100-240Vac; 50-60Hz, 1.8A, O/P: 5Vdc/2A or 9Vdc/2A or 15Vdc/3A or 20Vdc/3.25A. Class II. 40 oC Altitude: 5000m	IEC 60950-1: 2005/AMD2: 2013, EN 60950-1: 2006+A11+A1+ A12+A2, IEC 62368-1 (ed.2), EN 62368-1: 2014/ A11:2017, UL 60950-1, UL 62368-1	CB by TUVRh (JPTUV- 075538-M1); CB by TUVRh (JPTUV- 081062), UL

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81-IC-F0033 rev 12.0

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**Certificado No. / Certificate No.** **UL-BR 20.0714**

**Data de Emissão / Date of Issue** 12 de Maio de 2020 / May 12, 2020

**Página / Page** **46/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
**Certificate of conformity valid with pages from 1 to 45**

Adapter (For 20Vdc, 3.25A) (Alternate)	Acbel Polytech Inc. (Trademark: Lenovo)	ADLX65YAC3A	I/P: 100-240Vac; 50-60Hz. 1.8A, O/P: 5Vdc/2A or 9Vdc/2A or 15Vdc/3A or 20Vdc/3.25A. Class I. 40 oC Altitude: 5000m	IEC 60950-1: 2005/AMD2: 2013, EN 60950-1: 2006+A11+A1+ A12+A2, IEC 62368-1 (ed.2), EN 62368-1: 2014/ A11:2017, UL 60950-1, UL 62368-1	CB by TUVRh (JPTUV- 075533-M1); CB by TUVRh (JPTUV- 081072), UL
Enclosure Material for top cover	TORAY INDUSTRIES INC	A695H	V-0, thickness 0.8mm min., 130oC	UL 94, UL 746	UL
Enclosure Material for LCD bezel	Covestro Deutschland AG [PC Resins]	FR3002 + + - Material designations may be followed by a six digit numerical code denoting color.	V-0, thickness 0.9mm min., 70oC	UL 94, UL 746	UL
Enclosure Material for LCD bezel (Alternate)	MITSUBISHI ENGINEERING- PLASTICS CORP	MB1700+ + - Suffix optional, exceptions: The following cannot be used as optional suffixes: "NF" for grade NXG5050, "N" for grade NXG5030, "S1" for grade F20-54, "V" for grades S- 2000+(f1), S- 2001+(f1), S- 2003+(f1), the last letter "L" for grade CFH2520+.	V-0, thickness 0.75mm min., 60oC	UL 94, UL 746	UL
Enclosure Material for top side around keyboard	Covestro Deutschland AG [PC Resins]	FR3021 + + - Material designations may be followed by a six digit numerical code denoting color.	V-0, thickness 1.2mm min., 60oC	UL 94, UL 746	UL
Enclosure Material for top side around keyboard (Alternate)	Covestro Deutschland AG [PC Resins]	FR3002 + + - Material designations may be followed by a six digit numerical code denoting color.	V-0, thickness 0.9mm min., 70oC	UL 94, UL 746	UL
Enclosure Material for bottom case	E I DUPONT DE NEMOURS & CO INC	HTNFR55G50NH LW (1) Material designations that are color pigmented may be followed by suffix letters and numbers. (2) Material designations may be prefixed by "ZYT" for Zytel or "MIN" for Minlon or "DEL" for Delrin or "CRA" for Crastin or "RYN" for Rynite or "ETPV" for ETPV or "SOR" for Soronagrades.	V-0, thickness 0.4 mm min. 65 oC	UL 94, UL 746	UL
Mesh for speaker	Polyshine Technology (Sha nghai) Co Ltd	P(xy)07A	V-0, thickness 0.25 mm, 80 degree C	UL 94, UL 746	UL
Rubber stand	Covestro Deutschland AG [PC Resins]	FR3008 ++ - Material designations may be followed by a six digit numerical code denoting color.	Rated V-1, thickness 1.0 mm min., 60 degree C	UL 94, UL 746	UL

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81-IC-F0033 rev 12.0

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**Data de Emissão / Date of Issue** 12 de Maio de 2020 / May 12, 2020

**Página / Page** **47/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
**Certificate of conformity valid with pages from 1 to 45**

Rubber stand (Alternate)	Covestro Deutschland AG [PC Resins]	FR3006 HF ++ - Material designations may be followed by a six digit numerical code denoting color.	V-1, thickness 1.5 mm min., 60 °C	UL 94, UL 746	UL
Metal sheet for docking-station hook holes	Interchangeable	Interchangeable	Metal material; see Diagrams ID 4-05 for details.	--	--
LCD panel	InnoLux.	N140HCR-GA2	14.0 inch (LED backlight)	--	Test in the equip.
LCD panel (Alternate)	Interchangeable	Interchangeable	14.0 inch (LED backlight)	--	Test in the equip.
Rechargeable Li-ion Battery Pack	LG CHEM, LTD.	L18L3P73	11.55Vdc, 4372mAh / 51Wh	IEC 60950 1:2005/AMD:2013, EN 60950-1:2006/A1:2010/A11:2009/A12:2011/A2:2013, IEC62133:2012, IEC 62368-1:2014, EN 62368-1:2014/A11:2017, UL 2054, UL 60950-1,	CB by Demko (DK-77624-UL) (DK-77588- UL) (DK-77820-UL) UL
Rechargeable Li-ion Battery Pack (Alternate)	CELXPRT ENERGY CORP	L18C3P72	11.52Vdc, Typical 4380mAh / 51Wh, Rated 4250mAh / 49Wh	IEC 60950-1:2005/AMD2:2013, EN 60950-1:2006 /A11:2009 /A1:2010 /A12:2011 /A2:2013, IEC 62133:2012, EN 62133:2013, IEC 62368-1: 2014, EN 62368-1:2014/ A11:2017, UL 2054, UL 60950-1	CB by Demko (DK-76485-M2- UL) (DK-76394-M2- UL) (DK-77304-M2- UL) UL
DC Fan	Asia Vital Components Co., Ltd.	BAPA0806R5HV (V = ABCD where A, B, C, D may be A-Z, 0-9 or "-")	5Vdc, 0.5A, 2.5 CFM min.	UL507, EN 60950-1: 2006 + A11:2009 + A1: 2010 + A12: 2011 + A2: 2013	UL, TUV
DC Fan (Alternate)	Delta Electronics, Inc.	ND75C33XXXXX XXXXXX (X stands for A-Z, 0-9, - or blank (for Marketing purpose only))	5Vdc, 0.5A, 3.05 CFM min.	UL507, EN 62368-1: 2014, IEC 62368-1: 2014	UL, TUV
DC Fan (Alternate)	Sunonwealth Electric Machine Industry Co., Ltd.	EG50040S1-CG3Z (X stands for 30 characters. Each character stands for one of the following signs: 0-9, A-Z, (, ), -, /, -or blank (for marketing purpose only))	5Vdc, 0.45A, 2.8 CFM min.	UL 507, EN 62368-1: 2014, EN 60950-1: 2006+A11+A1+A12+A2	UL, TUV
Motherboard	--	--	See below	--	Tested in the equip.
- RTC battery (Lithium type)	PANASONIC CORPORATION OF NORTH AMERICA	CR2032* (* - Cell model numbers may be followed by an optional slash (/) and single or multiple alphanumeric characters (i.e. letters and/or numbers), which denote optional features	3.0Vdc, Maximum abnormal charging current 10mA	UL 1642	UL (MH12210)

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41-IC-F0033 rev 12.0



# CERTIFICADO DE CONFORMIDADE

## CERTIFICATE OF CONFORMITY

Certificado No. / Certificate No. **UL-BR 20.0714**

Data de Emissão / Date of Issue 12 de Maio de 2020 / May 12, 2020

Página / Page **48/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
*Certificate of conformity valid with pages from 1 to 45*

		such as various mounting tabs, connecting leads or plugs, packaging, etc.)			
- RTC battery (Lithium type) (Alternate)	MITSUBISHI ELECTRIC CORP	CR2032+ (+ - The cells may have various insulating tube, ring, or tape.)	3.0Vdc, Maximum abnormal charging current 10mA	UL 1642	UL (MH15370)
- RTC battery (Lithium type) (Alternate)	MAXELL LTD	CR2032* (* - These cells and batteries may come with an optional single or multiple alphanumeric denoting various pin, tab, cap or wire termination types.)	3.0Vdc, Maximum abnormal charging current 10mA	UL 1642	UL (MH12568)
- RTC battery (Lithium type) (Alternate)	VARTA MICROBATTERY GMBH	CR2032	3.0Vdc, Maximum abnormal charging current 10mA	UL 1642	UL (MH13654)
IR LED module	Liteon OPTO Technology (CZ) Ltd.	LTE-R28206S-NE8-XX ("XX" means different customer numbers)	Comply IEC 62471 exempt Group	IEC 62471	CB by SGS CEBEC (BE-34640)
IR LED module (Alternate)	Interchangeable	Interchangeable	Comply IEC 62471 exempt Group	IEC 62471	UL, CB or Other certification body

MODELO DE CERTIFICAÇÃO / CERTIFICATION MODEL: 5

VERSÃO DO PROJETO DO PRODUTO / PRODUCT DESIGN VERSION: N/A

DOCUMENTOS / DOCUMENTS:

Título / Title	Número / Number	Revisão / Revision	Data / Date
<<Dados da Auditoria / Audit data >> <b>Supplier &amp; Factory</b> Lenovo Tecnologia (Brasil) Ltda	BR2334	0	2020-01-09
<b>Relatório de ensaio emitido por Nemko</b> / Test report issued by Nemko	271872	0	2014-10-24
<b>Relatório de ensaio emitido por Compliance Certification Services INC.</b> / Test report issued by Compliance Certification Services INC.	T140924L10-E	0	2014-10-14
<b>Relatório de ensaio emitido por Universal Standard Service</b> / Test report issued by Universal Standard Service	ASL15031202	0	2015-04-09
<b>Relatório de ensaio emitido por UL Japan, Inc</b> / Test report issued by UL Japan, Inc.	10462171S	0	2014-10-08
<b>Relatório de ensaio emitido por UL Japan, Inc</b> / Test report issued by UL Japan, Inc.	E200693-A68-CB-4	0	2014-09-19
<b>Relatório de ensaio emitido por UL Japan, Inc</b> / Test report issued by UL Japan, Inc.	10512482S-A	0	2014-10-16
<b>Relatório de ensaio emitido por Universal Standard Service, Inc.</b> / Test report issued by Universal Standard Service, Inc.	ASL15052618	0	2015-06-02
<b>Relatório de ensaio emitido por</b> / Test report issued by TÜV Rheinland Taiwan Ltd.	271814	0	2014-10-24
<b>Relatório de ensaio emitido por</b> / Test report issued by Cerpass Technology (Suzhou) Co., Ltd.	T150625L01-E	0	2015-06-30
<b>Relatório de ensaio emitido por</b> / Test report issued by Universal Standard Service, Inc.	ASL15031203	0	2015-04-09
<b>Relatório de ensaio emitido por</b> / Test report issued by TÜV Rheinland Taiwan Ltd.	11038672 001	0	2014-10-20
<b>Relatório de ensaio emitido por</b> / Test report issued by Cerpass Technology (Suzhou) Co., Ltd.	SECE1504010-A	0	2015-06-29

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**Data de Emissão / Date of Issue** 12 de Maio de 2020 / May 12, 2020

**Página / Page** **49/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
**Certificate of conformity valid with pages from 1 to 45**

Relatório de ensaio emitido por / Test report issued by Universal Standard Service, Inc.	ASL15031204	0	2015-04-09
Relatório de ensaio emitido por / Test report issued by UL Japan, Inc.	E200693-A102-CB-1	0	2015-08-07
Relatório de ensaio emitido por / Test report issued by Compliance Certification Services Inc.	T160309W07-E	0	2016-04-08
Relatório de ensaio emitido por / Test report issued by Compliance Certification Services Inc.	T151227L13-D	0	2016-01-07
Relatório de ensaio emitido por / Test report issued by Universal Standard Service, Inc.	ASL15090705	0	2015-10-14
Relatório de ensaio emitido por / Test report issued by Nemko Taiwan	294666	0	2015-09-23
Relatório de ensaio emitido por / Test report issued by Compliance Certification Services Inc.	T151014L02-D	0	2016-04-23
Relatório de ensaio emitido por / Test report issued by Compliance Certification Services Inc.	T151014L02-E	0	2015-10-23
Relatório de ensaio emitido por / Test report issued by Universal Standard Service, Inc.	ASL15100728	0	2015-10-29
Relatório de ensaio emitido por / Test report issued by Compliance Certification Services Inc.	T150818L10-E	0	2015-07-14
Relatório de ensaio emitido por / Test report issued by Compliance Certification Services Inc.	T150818L10-D	0	2015-07-14
Relatório de ensaio emitido por / Test report issued by Compliance Certification Services Inc.	T151206L27-D	1	2015-07-14
Relatório de ensaio emitido por / Test report issued by Compliance Certification Services Inc.	T151206L27-E	1	2015-07-14
Relatório de ensaio emitido por / Test report issued by Compliance Certification Services Inc.	T160303W04-D	3	2015-07-14
Relatório de ensaio emitido por / Test report issued by Compliance Certification Services Inc.	T160303W04-E	3	2015-07-14
Relatório de ensaio emitido por / Test report issued by Nemko Taiwan	294356	0	2015-07-18
Relatório de ensaio emitido por / Test report issued by Compliance Certification Services Inc.	ASL15091006	0	2015-09-16
Relatório de ensaio emitido por / Test report issued by Nemko Taiwan	316511	0	2016-09-26
Relatório de ensaio emitido por / Test report issued by Nemko Taiwan	318420	0	2016-10-21
Relatório de ensaio emitido por / Test report issued by Nemko Taiwan	321645	0	2016-12-12
Relatório de ensaio emitido por / Test report issued by BTL Inc.	BTL-EMC-1-1611007	0	2016-11-16
Relatório de ensaio emitido por / Test report issued by BTL Inc.	BTL-EMC-1-1611007A	0	2017-01-16
Relatório de ensaio emitido por / Test report issued by BTL Inc.	BTL-FICE-1-1611007A	0	2017-01-16
Relatório de ensaio emitido por / Test report issued by Universal Standard Service, Inc.	ASL16100316	0	2016-10-21
Relatório de ensaio emitido por / Test report issued by Nemko Taiwan	316343	0	2016-10-19
Relatório de ensaio emitido por / Test report issued by Nemko Taiwan	318199	0	2016-10-19
Relatório de ensaio emitido por / Test report issued by Compliance Certification Services Inc.	T161027W08-E	0	2016-11-08
Relatório de ensaio emitido por / Test report issued by Compliance Certification Services Inc.	T161220W01-E	0	2016-12-30
Relatório de ensaio emitido por / Test report issued by Compliance Certification Services Inc.	T161220W01-D	0	2016-12-30
Relatório de ensaio emitido por / Test report issued by Universal Standard Service, Inc.	ASL16101729	0	2016-11-03
Relatório de ensaio emitido por / Test report issued by Compliance Certification Services Inc.	T160628 W02-E	0	2016-07-07

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41-IC-F0033 rev 12.0

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## CERTIFICATE OF CONFORMITY

Certificado No. / Certificate No. **UL-BR 20.0714**

Data de Emissão / Date of Issue 12 de Maio de 2020 / May 12, 2020

Página / Page **50/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
**Certificate of conformity valid with pages from 1 to 45**

Relatório de ensaio emitido por / Test report issued by Universal Standard Service, Inc.	ASL16062826	0	2016-07-12
Relatório de ensaio emitido por / Test report issued by Intertek Testing Services Taiwan Ltd	160600401TWN-001	0	2016-06-29
Relatório de ensaio emitido por / Test report issued by Universal Standard Service, Inc.	ASL18080741	0	2018-09-04
Relatório de ensaio emitido por / Test report issued by Universal Standard Service, Inc.	ASL18110814	0	2018-11-22
Relatório de ensaios emitido por / Test report issued by Audix Technology Corporation, EMC Department	EM-E180475	0	2018-10-02
Relatório de ensaio emitido por / Test report issued by UL Japan, Inc.	E302338-A434-CB-1	0	2017-11-08
Relatório de ensaio emitido por / Test report issued by UL Japan, Inc.	E302338-A434-CB-1	Am. 1	2017-11-13
Relatório de ensaio emitido por / Test report issued by BTL Inc.	BTL-EMC-1-1710114	0	2017-11-06
Relatório de ensaio emitido por / Test report issued by TÜV Rheinland Shanghai Co. Ltd	50112351 001	0	2017-11-29
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Laboratory Name Nemko Taiwan	340475	0	2017-10-25
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Laboratory Name Audix Technology Corporation	EM-E170985	0	2017-11-03
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Laboratory Name Audix Technology Corporation	EM-F170681	0	2017-11-03
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Laboratory Name Universal Standard Service, Inc.	ASL18041324	0	2018-04-27
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Laboratory Name Nemko Taiwan	337579	0	2017-08-17
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Laboratory Name BTL Inc.	BTL-EMC-1-1708193	0	2017-09-13
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Laboratory Name BTL Inc.	BTL-FICE-1-1708193A	0	2018-04-20
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Laboratory Name Universal Standard Service, Inc.	ASL18050454	0	2018-05-17
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Laboratory Name UL International Demko A/S	E200693-A147-CB-1	0	2017-10-02
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Laboratory Name AUDIX Technology Corporation	EM-E171020	0	2017-11-17
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Laboratory Name AUDIX Technology Corporation	EM-F170703	0	2017-11-17
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Laboratory Name International Standards Laboratory	ISL-18LS0160S	0	2018-10-02
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by IBEC	R190724	0	2019-04-01
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by IBEC	R190725	0	2019-04-04
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by FIT	V19-020-SERV-01	0	2019-03-22
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by BTL Inc.	1811T150	0	2018-12-26
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Universal Standard Service, Inc.	ASL19031903	0	2019-04-03
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by UL Japan, Inc.	ASL18100307	0	2018-11-20

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## CERTIFICATE OF CONFORMITY

Certificado No. / Certificate No. **UL-BR 20.0714**

Data de Emissão / Date of Issue 12 de Maio de 2020 / May 12, 2020

Página / Page **51/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
*Certificate of conformity valid with pages from 1 to 45*

Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Audix Technology Corporation	EM-E180558	0	2018-10-08
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Audix Technology Corporation	EM-F180427	0	2018-10-08
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by UL International Demko A/S	E302338-A635-CB-1	0	2018-09-25
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by International Standards Laboratory	ISL-19LS004OS	0	2019-03-12
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Universal Standard Service, Inc.	ASL19050325	0	2019-05-30
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Universal Standard Service, Inc.	ASL19082210	0	2019-08-30
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by BTL Inc.	1906T081	0	2019-07-18
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Universal Laboratories Taiwan Co., Ltd	E302338-A710-CB-1	0	2019-07-16
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by International Standards Laboratory	ASL19082210	0	2019-09-16
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by BTL Inc.	1907T140	0	2019-08-21
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by BTL Inc.	1811H007	0	2019-01-30
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by UL-CCIC Company Limited	E302338-A672-CB-1	0	2019-01-29
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by FIT - Flextronics Instituto de Tecnologia	V20-016-SERV-00	A	2020-04-02
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by IBEC	R194727	0	2020-04-08
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by FIT	V19-151-SERV-02	0	2020-03-24
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by IBEC	R194728	0	2020-05-22
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Universal Standard Service, Inc.	ASL19111832	0	2019-12-25
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by FIT - Flextronics Instituto de Tecnologia	S20-078-SERV-03	A	2020-09-01
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by BTL Inc.	BTL-EMC-1-2002T020	0	2020-02-27
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by BTL Inc.	1910H024	0	2020-04-07
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by FIT - Flextronics Instituto de Tecnologia	S20-078-SERV-04	0	2020-11-06
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Universal Standard Service, Inc.	E302338-A6128-CB-1	0	2020-03-18
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by BTL Inc.	1909H037	0	2020-03-27
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by FIT - Flextronics Instituto de Tecnologia	S20-078-SERV-05	0	2020-11-06
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Universal Standard Service, Inc.	E302338-A6178-CB-1	0	2020-03-20

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Data de Emissão / Date of Issue 12 de Maio de 2020 / May 12, 2020

Página / Page **52/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
*Certificate of conformity valid with pages from 1 to 45*

Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Instituto de Pesquisas Eldorado - IPE	LET-ENE-RE 2395- 8971-02-C - 01.00 (Pt)	0	2021-05-28
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by IBEC	IBEC210326	0	2021-06-17
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by IBEC	IBEC210327	0	2021-06-25
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Instituto de Pesquisas Eldorado - IPE	LET-ENE-RE 2395- 8743-02-C - 01.00 (Pt)	0	2021-08-06
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by BTL Inc.	BTL-EMC-1-2001T091 R02	0	2020-02-27
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Audix Technology (Wujiang) Co., Ltd., EMC Dept.	C1M1910185	0	2020-03-20
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Perfectlink International Corp.	CB1191912061A	0	2020-02-14
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Instituto de Pesquisas Eldorado - IPE	LET-ENE-RE 2395- 8743-01-C - 01.00 (Pt)	0	2021-08-06
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by BTL Inc.	BTL-EMC-1-2012T046 R00	0	2021-01-06
Relatório de ensaio emitido por Nome do Laboratório / Test report issued by Universal Standard Service, Inc.	ASL20101923	0	2020-12-01

### OBSERVAÇÕES / OBSERVATIONS:

- A validade deste Certificado está condicionada à realização das avaliações de manutenção e tratamento de possíveis não conformidades de acordo com as orientações da UL do Brasil Certificações e previstas nos procedimentos específicos.**  
*The validation of this certificate depends on the surveillance inspections performing and Non conformity treatments, according to UL do Brasil Certificações procedures.*
- Este certificado aplica-se aos equipamentos (produtos) idênticos ao protótipo avaliado e certificado, manufaturados na(s) unidade (s) fabril (is) mencionada (S) acima.**  
*This certificate applies to the products that are identical to the prototype investigated, certified and manufactured at the production site mentioned in this certificate*
- Qualquer alteração no produto, incluindo a marcação, invalidará o presente certificado, salvo se o solicitante informar por escrito à UL do Brasil Certificações sobre esta modificação, a qual procederá à avaliação e decidirá quanto à continuidade da validade do certificado.**  
*Any non-authorized changes performed in the product, including marking, will invalidate this certificate. UL do Brasil Certificações must be notified about any desired change. This notification will be analyzed by UL do Brasil Certificações that will decide about certificate force.*

### Histórico de Revisões / Revisions Description:

15 de Setembro de 2021 / September 15, 2021	Inclusão dos modelos ThinkPad L14 Gen 1, ThinkPad T14 Gen 2, 20U1, 20U2, 20U5, 20U6, 20W0, 20W1, 20VX, 20VY.
02 de Junho de 2021 / June 02, 2021	Manutenção 2021.
18 de Novembro de 2020 / November 18, 2020	Inclusão de modelos ThinkPad T14 Gen 1xxxxx, ThinkPad E14 Gen 2xxxxx, 20UD, 20UE, 20T6, 20T7.

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**Página / Page** **53/45**

**Certificado de conformidade válido somente acompanhado das páginas de 1 até 45**  
*Certificate of conformity valid with pages from 1 to 45*

11 de Setembro de 2020 / September 11, 2020	Inclusão de modelos ThinkPad T14, 20S0, 20S1, 20S2, 20S3 / Models inclusion ThinkPad T14, 20S0, 20S1, 20S2, 20S3.
23 de Junho de 2020 / June 23, 2020	Atualização com relatório de ensaio / <i>Update with test report</i>
12 de Maio de 2020 / May 12, 2020	Emissão inicial com recertificação do certificado UL-BR 15.0348 / <i>Initial Issue with renewal of certificate UL-BR 15.0348</i>
<b>A última revisão substitui e cancela as anteriores</b> <i>The last review cancel and substitutes the previous ones</i>	

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