

CERTIFICADO DE CONFORMIDADE

CERTIFICATE OF CONFORMITY

Certificado No. / Certificate No. **UL-BR 20.1197**

Data de Emissão / Date of issue **29 de Julho de 2020 / Julho 29, 2020**

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Certificado de conformidade válido somente acompanhado das páginas de 1 até 28
Certificate of conformity valid with pages from 1 to 28

Fornecedor / Supplier **HP BRASIL INDÚSTRIA E COMÉRCIO DE EQUIPAMENTOS ELETRÔNICOS LTDA**
(100039-522)
ALAMEDA XINGU, 350, ANDAR 8 CONJ. 801 – ALPHAVILLE, BARUERI, SP. CEP: 06455-030
CNPJ: 22.086.683/0001-84

Produto Certificado / Certified Product **COMPUTADOR PORTÁTIL / NOTEBOOK**

Família de Produto / Product's Family **N/A**

Modelo - Tipo / Model - Type **Modelo(s)/Model(s): HSN-I24C-4, HSN-I26C, HSN-Q21C**

Descrição (Nome comercial) / Description (Brand Name) **HP**

Lote ou No. de Série / Lot or Serial Number **N/A**

Normas Aplicáveis / Applicable standards **IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013, CISPR 22:2008, CISPR 32:2012, CISPR 32:2015/COR:2016, CISPR 24:2010+A1:2015, IEC 61000-3-2:2014, IEC 61000-3-3:2013, IEC 61000-4-2:2008, IEC 61000-4-3:2006 +A1:2007 +A2:2010, IEC 61000-4-4:2012, IEC 61000-4-5:2014, IEC 61000-4-6:2013, IEC 61000-4-8:2009, IEC 61000-4-11:2004**

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 Ensaios / Assessment and Test Report #
BR2357, Vol. 8, Sec. 33, 36

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 **21 de agosto de 2020 / August 21, 2020**
Validade / Expire date **28 de Julho de 2023 / July 28, 2023**

In behalf of C.O.: **Pedro Mottola Conformity Assessment Program Specialist**

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 Nr OCP-0029 confirms that the product is in compliance with the standards and certification Programs or Decrees above mentioned.



Organismo de Certificação / Certification Body

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Solicitante / Applicant **HP BRASIL INDÚSTRIA E COMÉRCIO DE EQUIPAMENTO**
(100039522) **ELETRÔNICOS LTDA**
ALAMEDA XINGU, 350, ANDAR 8 CONJ. 801 – ALPHAVILLE,
BARUERI, SP. CEP: 06455-030
CNPJ: 22.086.683/0001-84

Fábrica/ factory **FLEXTRONICS INTERNATIONAL TECNOLOGIA LTDA**
(100500-147) AVENIDA LIBERDADE, 6315
18087-170 – SOROCABA – SP – BRASIL

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

CARACTERÍSTICAS NOMINAIS / RATINGS:
19.5 Vdc, 2.31A ou 3.33A / 20Vdc, 2.25A or 3.25A - 100-240V~, 50-60Hz, 2.3A

LISTA DE ACESSÓRIOS / LIST OF ACCESSORIES: N/A

MODELO DE CERTIFICAÇÃO / CERTIFICATION MODEL: 5

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

LISTA DE COMPONENTES CRÍTICOS / LIST OF CRITICAL COMPONENTS:
Para o modelo HSN-I24C-4 ver Anexo 1 - Para o modelo HSN-I26C ver Anexo 2 – Para o modelo HSN-Q21C ver Anexo 3

DOCUMENTOS / DOCUMENTS:

Título / Title	Número / Number	Revisão / Revision	Data emissão / Issue Date	Data de Realização / Performance Date
Dados da Auditoria / Audit data Factory: Flextronics International Tecnologia Ltda.	BR2357	0	2020-05-20	N/A
Dados da Representante Legal / Legal Rep data HP Brasil Industria e comércio de Equipamentos Eletrônicos Ltda.	BR2357	0	2020-02-13	N/A
Relatório de ensaio emitido por / Test report issued by TUV Rheinland Taiwan Ltd., Taichung Branch	50213639 001	0	2019-01-19	N/A
Relatório de ensaio emitido por / Test report issued by CSA Group	CB 178672-70207082	0	2018-02-26	N/A
Relatório de ensaio emitido por / Test report issued by CSA Group	CB 178672- 70207082-Amend1	0	2019-01-21	N/A
Relatório de ensaio emitido por / Test report issued by CSA Group	CB 178672- 70207082-Amend2	0	2019-03-18	N/A
Relatório de ensaio emitido por / Test report issued by CSA Group	CB 178672- 70207082-Amend4		2019-08-15	N/A
Relatório de ensaio emitido por / Test report issued by SGS Taiwan	T181126L04-E1	0	2019-01-03	N/A
Relatório de ensaio emitido por / Test report issued by SGS Taiwan	MH/2018/B0169	0	2018-12-14	N/A
Relatório de ensaio emitido por / Test report issued by FIT – Flextronics Instituto de Tecnologia	V20-039-SERV-01	0	2020-07-02	N/A
Relatório de ensaio emitido por / Test report issued by FIT – Flextronics Instituto de Tecnologia	V20-039-SERV-02	0	2020-07-02	N/A

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Relatório de ensaio emitido por / Test report issued by <i>FIT – Flextronics Instituto de Tecnologia</i>	V20-039-SERV-03	0	2020-07-02	N/A
Relatório de ensaio emitido por / Test report issued by <i>FIT – Flextronics Instituto de Tecnologia</i>	V20-039-SERV-04	0	2020-07-02	N/A
Relatório de ensaio emitido por / Test report issued by <i>TUV Rheinland Taiwan Ltd., Taichung Branch</i>	50279910 001	0	2019-08-12	N/A
Relatório de ensaio emitido por / Test report issued by <i>TUV Rheinland Taiwan Ltd., Taichung Branch</i>	50279910 002	0	2019-09-17	N/A
Relatório de ensaio emitido por / Test report issued by <i>TUV Rheinland Taiwan Ltd., Taichung Branch</i>	50279910 003	0	2020-08-06	N/A
Relatório de ensaio emitido por / Test report issued by <i>SGS Taiwan</i>	T190617L02-E1	0	2020-07-25	N/A
Relatório de ensaio emitido por / Test report issued by <i>FIT – Flextronics Instituto de Tecnologia</i>	V20-039-SERV-05	0	2020-07-02	N/A
Relatório de ensaio emitido por / Test report issued by <i>FIT – Flextronics Instituto de Tecnologia</i>	V20-039-SERV-06	0	2020-07-02	N/A

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 for

Histórico de Revisões / Revisions Description:

21 de agosto de 2020 / August 21, 2020	Rev 1: Inclusão de modelo HSN-Q21C / Rev 1: HSN-Q21C model inclusion
29 de Julho de 2020 / July 29, 2020	Emissão inicial / Initial Issue
A última revisão substitui e cancela as anteriores <i>The last review replaces and cancels the previous ones</i>	

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Anexo 1 – Lista de componentes

Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity1)
Power Adapter (Optional) (Only for rated 19.5 Vdc, 2.31 A)	AcBel (hp)	TPN-AA05	I/P: 100-240Vac, 1.4 A, 50-60 Hz O/P: 19.5 Vdc, 2.31 A, Max. operating altitude: 5000 m	IEC60950-1: 2005+A1+A2, IEC 62368-1: 2014(Second Edition), EN62368-1: 2014+A11, UL 62368-1, 2nd Edition, 2014- 12-01, CSA C22.2 No. 62368-1-14, 2nd Edition, 2014- 12, CB test report issued by TÜV Rh	TÜV, UL
	Chicony (hp)	TPN-CA14	I/P: 100-240 Vac, 1.4 A, 50-60 Hz O/P: 19.5 Vdc, 2.31 A, Max. operating altitude: 5000 m	IEC 60950-1: 2005+A1+A2, IEC 62368-1:2014 (Second Edition), EN 62368-1: 2014+A11, UL 62368-1, 2 nd Edition, 2014- 12-01, CSA C22.2 No. 62368-1-14, 2 nd Edition, 2014-12, CB test report issued by TÜV Rh	TÜV, UL
	Delta (hp)	TPN-DA16	I/P:100-240 Vac, 1.4 A, 50-60 Hz O/P: 19.5 Vdc, 2.31A. Max. operating altitude: 5000m.	IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1+A12+ A2, IEC 62368-1:2014 (Second Edition), EN 62368-1: 2014+A11, UL 60950- 1, 2 nd Edition, 2014- 10-14, CAN/CSA C22.2 No. 60950-1- 07, 2nd Edition, 2014-10, UL 62368-1, 2 nd Edition, 2014-12- 01, CSA C22.2 No. 62368-1-14, 2 nd Edition, 2014- 12,CB test report issued by TÜV Rh	TÜV, UL

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	Lite-On (hp)	TPN-LA15	I/P:100-240 Vac, 1.1 A, 50-60 Hz O/P: 19.5 Vdc, 2.31 A, Max. operating altitude: 5000 m	IEC 60950-1: 2005+A1+A2, IEC 62368-1:2014 (Second Edition), EN 62368-1: 2014+A11,UL 62368- 1, 2 nd Edition, 2014- 12-01, CSA C22.2 No. 62368-1-14, 2 nd Edition, 2014-12,CB test report issued by UL	TÜV, UL
	Chicony (hp)	TPN-CA15	I/P:100-240 Vac, 1.4 A, 50-60 Hz O/P: 19.5 Vdc, 2.31 A, Max. operating altitude: 5000 m	IEC 60950-1: 2005+A1+A2, IEC 62368-1:2014 (Second Edition), UL 62368-1, 2 nd Edition, 2014-12-01, CSA C22.2 No. 62368-1-14, 2 nd Edition, 2014-12,CB test report issued by TÜV Rh	UL
(only for rated 19.5 Vdc, 3.33 A)	Chicony (hp)	TPN-CA17	I/P: 100-240 Vac, 1.7 A, 50-60 Hz O/P: 19.5 Vdc, 3.33 A, Max. operating altitude: 5000 m	IEC 60950-1: 2005+A1+A2, IEC 62368-1: 201 (Second Edition), UL 62368-1, 2 nd Edition, 2014-12-01, CSA C22.2 No. 62368-1-14, 2 nd Edition, 2014-12, EN 62368-1:2014+A11, CB test report issued by TÜV Rh	TÜV, UL
	Lite-On (hp)	TPN-LA17	I/P:100-240 Vac, 50-60 Hz, 1.7 A O/P: 19.5 Vdc, 3.33 A, Max. operating altitude: 5000 m	IEC 60950-1: 2005+A1+A2, IEC 62368-1:2014 (Second Edition),UL 62368-1, 2 nd Edition, 2014-12-01, CSA C22.2 No. 62368-1- 14, 2 nd Edition, 2014- 12,CB test report issued by UL	UL

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	Acbel (hp)	TPN-AA06	I/P: 100-240 Vac, 1.7 A, 50-60 Hz O/P: 19.5 Vdc, 3.33 A; Max. operating altitude: 5000 m	IEC 60950-1: 2005+A1+A2 IEC 62368-1:2014 (Second Edition), EN 62368-1: 2014+A11, UL 62368- 1, 2 nd Edition, 2014- 12-01, CSA C22.2 No. 62368-1-14, 2 nd Edition, 2014-12,CB test report issued by TÜV Rh	TÜV, UL
	Chicony (hp)	TPN-CA16	I/P: 100-240 Vac, 1.7 A, 50-60 Hz O/P: 19.5 Vdc, 3.33 A; Max. operating altitude: 5000 m	IEC 60950-1: 2005+A1+A2, IEC 62368-1:2014 (Second Edition), EN 62368-1: 2014+A11, UL 62368- 1, 2 nd Edition, 2014- 12-01, CSA C22.2 No. 62368-1-14, 2 nd Edition, 2014-12,CB test report issued by TÜV Rh	TÜV, UL
	Delta (hp)	TPN-DA17	I/P: 100-240 Vac, 1.7 A, 50-60 Hz O/P: 19.5 Vdc, 3.33 A; Max. operating altitude: 5000 m	IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006 +A11+A1+A12+A2, IEC 62368-1:2014 (Second Edition), EN 62368-1: 2014+A11, UL 62368- 1, 2 nd Edition, 2014- 12-01, CSA C22.2 No. 62368-1-14, 2 nd Edition, 2014-12,CB test report issued by TÜV Rh	TÜV, UL
	Lite-On (hp)	TPN-LA16	I/P: 100-240 Vac, 1.7 A, 50-60 Hz O/P: 19.5 Vdc, 3.33 A. Max. operating altitude: 5000 m	IEC 60950-1: 2005+A1+A2, IEC 62368-1:2014 (Second Edition), EN 62368-1: 2014+A11,UL 62368- 1, 2 nd Edition, 2014- 12-01, CSA C22.2 No. 62368-1-14, 2 nd Edition, 2014-12,CB test report issued by UL	TÜV, UL

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	Delta (hp)	HSTNN-DA14	I/P: 100-240 Vac, 1.5 A, 50-60 Hz O/P: 19.5 Vdc, 3.33 A; Max. operating altitude: 3048 m min.	IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1+ A12+A2, UL 60950-1, 2 nd Edition, 2011- 12-19, CSA C22.2 No. 60950-1-07, 2 nd Edition, 2011-12, CB test report issued by Nemko	TÜV, UL
(only for rated 19.5 Vdc, 2.31 A)	Interchangeable	Interchangeable	O/P: 19.5 Vdc, 2.31 A min., Tma: 35 °C min. Max. operating altitude: 3048 m min	IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+A1+ A12+A2, UL 60950-1, 2 nd Edition, CAN/CSA C22.2 No. 60950-1- 07, 2 nd Edition, IEC/EN 62368- 1:2014, CB test report issued by National Certification Body	TÜV, S, VDE or other EU certification marks, UL recognized
(only for rated 19.5 Vdc, 3.33 A)	Interchangeable	Interchangeable	O/P: 19.5 Vdc, 3.33 A min., Tma: 35 °C min. Max. operating altitude: 3048 m min	IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+ A11+A1+A12+A2, UL 60950-1, 2 nd Edition, CAN/CSA C22.2 No. 60950-1-07, 2 nd Edition, IEC/EN62368- 1:2014, CB test report issued by National Certification Body	TÜV, S, VDE or other EU certification marks, UL recognized
(only for rated 20 Vdc, 2.25 A)	Lite-On (hp)	TPN-LA06	I/P: 100-240 Vac, 1.4 A, 50-60 Hz O/P: 5 Vdc, 3 A or 9 Vdc, 3 A or 10 Vdc, 3.75 A or 12 Vdc, 3.75 A or 15 Vdc, 3 A or 20 Vdc, 2.25 A; Max. operating altitude: 5000 m	IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006 +A11+A1+A12+A2, UL 60950-1, 2 nd Edition, 2014-10-14, CAN/CSA C22.2 No. 60950-1-07, 2 nd Edition, 2014-10 UL 62368-1 2 nd Ed. 2014- 12-01, CSA C22.2 No. 62368-1-14, 2 nd Edition, 2014- 12, CB test report issued by TÜV Rh	TÜV, UL

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	Delta (hp)	TPN-DA07	I/P: 100-240 Vac, 1.4 A, 50-60 Hz O/P: 5 Vdc, 3 A or 9 Vdc, 3 A or 10 Vdc, 3.75 A or 12 Vdc, 3.75 A or 15 Vdc, 3 A or 20 Vdc, 2.25 A; Max. operating altitude: 5000 m	IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006 +A11+A1+ A12+A2, UL 60950-1, 2 nd Edition, 2014-10-14, CAN/CSA C22.2 No. 60950-1-07, 2 nd Edition, 2014-10 UL 62368-1 2 nd Ed. 2014-12-01, CSA C22.2 No. 62368-1-14, CB test report issued by UL	TÜV, UL
(only for rated 20 Vdc, 3.25 A)	Acbel (hp)	TPN-AA03	I/P: 100-240 Vac, 50-60 Hz, 1.7 A O/P: 5 Vdc, 3 A or 9 Vdc, 3 A or 10 Vdc, 5 A or 12 Vdc, 5 A or 15 Vdc, 4.33 A or 20 Vdc, 3.25 A. Max. operating altitude: 5000 m	IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006 +A11+A1+A12+A2, IEC 62368-1:2014 (Second Edition), EN 62368-1: 2014, UL 60950-1, 2 nd Edition, 2014-10- 14, CAN/CSA C22.2 No. 60950-1-07, 2 nd Edition, 2014-10 UL 62368-1 2 nd Ed. 2014-12-01, CSA C22.2 No. 62368-1-14, 2 nd Edition, 2014- 12, CB test report issued by TÜV Rh	TÜV, UL/cUL
	Chicony (hp)	TPN-CA06	I/P: 100-240 Vac, 50-60 Hz, 1.7 A O/P: 5 Vdc, 3 A or 9 Vdc, 3 A or 10 Vdc, 5 A or 12 Vdc, 5 A or 15 Vdc, 4.33 A or 20 Vdc, 3.25 A. Max. operating altitude: 5000 m	IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006 +A11+A1+A12+A2, IEC 62368-1: 2014 (Second Edition), EN 62368-1: 2014, UL 60950-1, 2 nd Edition, 2014- 10-14, CAN/CSA C22.2 No. 60950-1- 07, 2 nd Edition, 2014-10, CB test report issued by TÜV Rh	TÜV, UL/cUL

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(only for rated 20 Vdc, 2.25 A)	Interchangeable	Interchangeable	O/P: 20 Vdc, 2.25 A min., Tma: 35 °C min. Max. operating altitude: 3048 m min	IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+ A11+A1+A12+A2, UL 60950-1, 2nd Edition, CAN/CSA C22.2 No. 60950-1- 07, 2nd Edition, IEC/EN 62368- 1:2014, CB test report issued by National Certification Body	TÜV, S, VDE or other EU certification marks, UL recognized
(only for rated 20 Vdc, 3.25 A)	Interchangeable	Interchangeable	O/P: 20 Vdc, 3.25 A min., Tma: 35 °C min. Max. operating altitude: 3048 m min	IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006 +A11+A1+ A12+A2, UL 60950-1, 2nd Edition, CAN/CSA C22.2 No. 60950-1- 07, 2nd Edition, IEC/EN 62368- 1:2014, CB test report issued by National Certification Body	TÜV, S, VDE or other EU certification marks, UL recognized
Enclosure (except for display rear and display bezel)	Covestro	FR3021 + (+ - Material designations may be followed by a six digit numerical code denoting color)	V-0 min., thickness 1.2 mm min., 60 °C	UL 94	UL
	Covestro	FR3021 GR + (+ - Material designations may be followed by a six digit numerical code denoting color)	V-0 min., thickness 1.5 mm min., 60 °C	UL 94	UL
	Covestro	FR3020 + (+ - Material designations may be followed by a six digit numerical code denoting color)	V-0 min., thickness 0.75 mm min., 80 °C	UL 94	UL

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	Covestro	FR3040 + (+ - Material designations may be followed by a six digit numerical code denoting color)	V-0 min., thickness 0.75 mm min., 80 °C	UL 94	UL
	LG CHEM LTD	GN-5101RF(#) (#) - May be followed by optional suffix letter from A-Z incl., except F, and except Grades HT700B, XR401B, LI912A, AF303G, AF303S, XR404TX, R407D, XR407E)	V-0 min., thickness 0.75 mm min., 60 °C	UL 94	UL
	LG CHEM LTD	LUPOY GN-5151RF(#) (#) - May be followed by optional suffix letter from A-Z incl., except F, and except Grades HT700B, XR401B, LI912A, AF303G, AF303S, XR404T, XR407DXR407E)	V-0 min., thickness 1.0 mm min., 60 °C	UL 94	UL
	LG CHEM LTD	LUPOY ER5151RF(#) (#) - May be followed by optional suffix letter from A-Z incl. except F, and except Grades HT700B, XR401B, LI912A, AF303G, AF303S, XR404T, XR407D, XR407E)	V-0 min., thickness 1.0 mm min., 60 °C	UL 94	UL
	TEIJIN CHEMICALS PLASTIC COMPOUNDS SHANGHAI LTD	TN-3745B(#) (#) - Suffix optional)	V-0 min., thickness 1.2 mm min., 60 °C	UL 94	UL
Enclosure (for display rear and display bezel)	Interchangeable	Interchangeable	HB or better.	UL 94	UL

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RTC Battery (Lithium)	Interchangeable	CR2032	Abnormal charging current 10 mA Max.	UL 1642	UL
Battery Pack (Optional)	LG Chem (hp)	HSTNN-LB8F	11.4 Vdc, 48 Wh or 4212 mAh (Nom.) or 4000 mAh (Min.), 3 cells, Tma: 45 °C	IEC 62368-1:2014 (Second Edition), IEC 62133(ed.2) UL 62368-1, 2 nd Edition, 2014-12-01, UL 2054, UL 60950-1, 2 nd Edition, CSA C22.2 No. 62368-1-14, 2 nd Edition, 2014-12-01, CB test report issued by UL	UL
	SAMSUNG SDI (hp)	HSTNN-UB7K	11.4 Vdc, 48 Wh, 3 cells, Tma: 45 °C / 60 °C (charge / discharge)	IEC 60950-1:2005 (Second Edition) + Am1:2009 + Am2:2013, IEC 62133:2012 (Second Edition), UL 2054, UL 60950-1, 2 nd Edition, UL 62368-1, IEC 62368-1:2014 (Second Edition), CB test report issued by DEKRA for IEC 62133 and IEC 60950-1, CB test report issued by UL for IEC62368-1	UL
	Simplo (hp)	HSTNN-IB8B	11.4 or 11.55 Vdc, 4212 mAh or 48 Wh, 3 cells, Tma: 45 °C	IEC 60950-1:2005 (Second Edition) + Am1:2009 + Am2:2013, IEC 62133 2 nd (2012) & EN62133 (2013), IEC 62368-1:2014 (Second Edition), UL 2054 Second Edition, UL 60950-1, 2 nd Edition, UL 62368-1, 2 nd Edition, CB test report issued by UL	UL
CPU Cooling Fan	Delta	NS75C22XXXXX XXXXXXXX (X=A-Z, 0-9, "-" or blank for marketing purpose only)	5 Vdc, 0.5 A, 4.9 CFM min.	IEC 60950-1: 2005 +A1+A2, EN 60950-1: 2006+A11+A1+A12+A2, UL 507	TÜV, UL

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	Forcecon	DF(X)551205ML 0T Series, where (X) may be B, C or S.	5 Vdc, 0.5 A, 4.2 CFM min.	EN 60950-1: 2006+A11+A1+ A12+A2, UL 507	TÜV, UL
	Sunonwealth	EG75050S1- C05Z (Z stands for 30 characters. Each character stands for one of the following signs : 0-9, A-Z, (,), ., /, - or blank for marking purpose only)	5 Vdc, 0.45 A, 3.7 CFM min.	EN 60950-1: 2006+A11+A1+ A12+A2, UL 507	TÜV, UL
	Polytronics	SMD1812P110T F/24	1.1 A, 24 Vdc	IEC 60730-1	TÜV, UL
LCD Panel	AUO	B140HANyyyy (y=0-9, A-Z, a-z, “, ”, “-“ or blank)	14.0" TFT, LED backlight type.	--	--
	AUO	B140XTNyyyy (y=0-9, A-Z, a-z, “, ”, “-“ or blank)	14.0" TFT, LED backlight type.	--	--
	LG	LP140WFA	14.0" TFT, LED backlight type.	--	--
	IVO	M140NVF7	14.0" TFT, LED backlight type.	--	--
	InnoLux	N140HCAyyyy (y=0-9, A-Z, a-z, “, ”, “-“ or blank)	14.0" TFT, LED backlight type.	--	--
	InnoLux	N140BGAYyyy (y=0-9, A-Z, a-z, “, ”, “-“ or blank)	14.0" TFT, LED backlight type.	--	--
	BOE	NT140WHMyyyy (y=0-9, A-Z, a-z, “, ”, “-“ or blank)	14.0" TFT, LED backlight type.	--	--
	BOE	NV140FHMyyyy (y=0-9, A-Z, a-z, “, ”, “-“ or blank)	14.0" TFT, LED backlight type.	--	--
	Interchangeable	Interchangeable	14.0" TFT, LED backlight type.	--	--

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Mesh (For bottom opening) Mylar (For docking notch)	SICHUAN DONGFANG INSULATING MATERIAL CO LTD	DFR117, DFR117ECOA, DFR117ECOB, DFR117ECOC	VTM-0, min. 80 °C, min. 0.05 mm thick min.	UL 94	UL
Hard Disk Drive (2.5 inch) (One provided) (Optional)	Seagate	ST9 with additional suffixes	5 Vdc, max. 1.5 A	IEC 60950-1: 2005+A1+A2, CB test report issued by UL	TÜV, S, VDE or other EU certification marks, UL recognized
	Interchangeable	Interchangeable	5 Vdc, max. 1.5 A	IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006 +A11+A1+ A12+A2 UL 60950-1, CB test report issued by National Certification Body	--
SSD (Optional)	Interchangeable	Interchangeable	3.3 Vdc or 5 Vdc	--	--
Speakers (Optional)	Interchangeable	Interchangeable	Min. 4 K, max. 2.5 W, two provided	--	--
PCB	Interchangeable	Interchangeable	V-1min., 105 °C	UL 796	UL

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Anexo 2 – Lista de componentes

Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity ¹⁾
- Power Adapter (Optional)	AcBel (hp)	TPN-AA05	I/P: 100-240 Vac, 1.4 A, 50-60 Hz O/P: 19.5Vdc, 2.31A, Max. operating altitude: 5000m.	IEC 60950-1: 2005+A1+A2, UL 62368-1, 2nd Edition, 2014-12-01, CSA C22.2 No. 62368-1-14, 2nd Edition, 2014-12 IEC 62368-1: 2014 (Second Edition), EN 62368-1: 2014+A11	CB by TUV RH, UL/cUL
(Alternate)	Chicony (hp)	TPN-CA15	I/P:100-240 Vac, 1.4 A, 50-60 Hz O/P:19.5Vdc, 2.31A, Max. operating altitude: 5000 m.	IEC 60950-1: 2005+A1+A2, IEC 62368-1:2014 (Second Edition), UL 62368-1, 2nd Edition, 2014-12-01, CSA C22.2 No. 62368-1-14, 2nd Edition, 2014-12	CB by TUV RH, UL/cUL
(Alternate)	Chicony (hp)	TPN-CA14	I/P:100-240 Vac, 1.4 A, 50-60 Hz O/P: 19.5Vdc, 2.31A, Max. operating altitude: 5000m.	IEC 60950-1: 2005+A1+A2, IEC 62368-1:2014 (Second Edition), UL 62368-1, 2nd Edition, 2014-12-01, CSA C22.2 No. 62368-1-14, 2nd Edition, 2014-12 EN 62368-1: 2014+A11	CB by TUV RH, UL/cUL
(Alternate)	Lite-On (hp)	TPN-LA15	I/P: 100-240 Vac, 1.1 A, 50-60 Hz O/P: 19.5Vdc, 2.31A, Max. operating altitude: 5000m.	IEC 60950-1: 2005+A1+A2, IEC 62368-1:2014 (Second Edition), UL 62368-1, 2nd Edition, 2014-12-01, CSA C22.2 No. 62368-1-14, 2nd Edition, 2014-12 EN 62368-1: 2014+A11	CB by TUV RH, UL/cUL

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(Alternate)	Delta (hp)	TPN-DA16	I/P: 100-240 Vac, 1.4 A, 50-60 Hz O/P: 19.5Vdc, 2.31A, Max. operating altitude: 5000m.	IEC 62368-1:2014 (Second Edition), UL 62368-1, 2nd Edition, 2014-12-01, CSA C22.2 No. 62368-1-14, 2nd Edition, 2014-12 UL 60950-1, 2nd Edition, 2014-10-14, CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10, EN 60950-1: 2006 +A11+A1+A12+A2, EN 62368-1: 2014+A11	CB by TUV RH, UL/cUL
(Alternate)	Delta (hp)	TPN-DA07	I/P: 100-240 Vac, 1.4 A, 50-60 Hz O/P: 5Vdc, 3 A or 9 Vdc, 3 A or 10 Vdc, 3.75 A or 12 Vdc, 3.75 A or 15 Vdc, 3A or 20 Vdc, 2.25 A, Max. operating altitude: 5000m.	IEC 60950-1: 2005+A1+A2, UL 60950-1, 2 nd Edition, 2014-10 14, CAN/ CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10 EN 60950-1:2006 +A11+A1+A12+A2, UL 62368-1, 2 nd Edition, 2014-12-01, CSA C22.2 No. 62368-1-14	CB by Demko, UL/cUL
(Alternate)	Lite-On (hp)	TPN-LA06	I/P: 100-240 Vac, 1.4 A, 50-60 Hz O/P: 5 Vdc, 3 A or 9 Vdc, 3 A or 10 Vdc, 3.75 A or 12 Vdc, 3.75 A or 15 Vdc, 3 A or 20 Vdc, 2.25 A, Max. operating altitude: 5000m.	IEC 60950-1: 2005+A1+A2, UL 60950-1, 2 nd Edition, 2014-10-14, CAN/ CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10 IEC 62368-1:2014 (Second Edition), UL 62368-1, 2 nd Edition, 2014-12-01	CB by TUV RH, UL/cUL
(Alternate)	Chicony (hp)	TPN-CA17	I/P: 100-240 Vac, 1.7 A, 50-60 Hz O/P: 19.5Vdc, 3.33A, Max. operating altitude: 5000m.	IEC 60950-1: 2005+A1+A2, IEC 62368-1:2014 (Second Edition), UL 62368-1, 2 nd Edition, 2014-12-01, CSA C22.2 No. 62368-1-14, 2nd Edition, 2014-12, EN 62368-1: 2014+A11	CB by TUV RH, UL/cUL

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(Alternate)	Acbel (hp)	TPN-AA06	I/P: 100-240 Vac, 1.7 A, 50-60 Hz O/P: 19.5Vdc, 3.33A; Max. operating altitude: 5000 m	IEC 60950-1: 2005+A1+A2, IEC 62368-1:2014 (Second Edition), UL 62368-1, 2nd Edition, 2014-12-01, CSA C22.2 No. 62368-1-14, 2nd Edition, 2014-12, EN 62368-1: 2014+A11	CB by TÜV Rh, UL/cUL
(Alternate)	Chicony (hp)	TPN-CA16	I/P: 100-240 Vac, 1.7 A, 50-60 Hz O/P: 19.5Vdc, 3.33A; Max. operating altitude: 5000 m	IEC 60950-1: 2005+A1+A2, IEC 62368-1:2014 (Second Edition), UL 62368-1, 2nd Edition, 2014-12-01, CSA C22.2 No. 62368-1-14, 2nd Edition, 2014-12, EN 62368-1: 2014+A11	CB by TÜV Rh, UL/cUL
(Alternate)	Delta (hp)	TPN-DA17	I/P: 100-240 Vac, 1.7 A, 50-60 Hz O/P: 19.5Vdc, 3.33A; Max. operating altitude: 5000 m	IEC 60950-1: 2005+A1+A2, IEC 62368-1:2014 (Second Edition), UL 62368-1, 2nd Edition, 2014-12-01, CSA C22.2 No. 62368-1-14, 2nd Edition, 2014-12, EN 60950-1:2006+A11+A1+A1 2+A2, EN 62368-1: 2014+A11	CB by TÜV Rh, UL/cUL
(Alternate)	Lite-On (hp)	TPN-LA16	I/P: 100-240 Vac, 1.7 A, 50-60 Hz O/P: 19.5Vdc, 3.33A; Max. operating altitude: 5000 m	IEC 60950-1: 2005+A1+A2, IEC 62368-1:2014 (Second Edition), UL 62368-1, 2nd Edition, 2014-12-01, CSA C22.2 No. 62368-1-14, 2nd Edition, 2014-12 EN 62368-1:2014+A11	CB by Demko, UL/cUL
(Alternate)	Lite-On (hp)	TPN-LA17	I/P: 100-240 Vac, 1.7 A, 50-60 Hz O/P: 19.5Vdc, 3.33A, Max. operating altitude: 5000m.	IEC 60950-1: 2005+A1+A2, IEC 62368-1:2014 (Second Edition), UL 62368-1, 2nd Edition, 2014-12-01, CSA C22.2 No. 62368-1-14, 2nd Edition, 2014-12	CB by Demko, UL/cUL

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(Alternate)	AcBel (hp)	TPN-AA03	I/P: 100-240 Vac, 1.7 A, 50/60 Hz O/P: 5 Vdc, 3 A or 9Vdc, 3 A or 10 Vdc, 5 A or 12 Vdc, 5 A or 15 Vdc, 4.33 A or 20 Vdc, 3.25 A. Max. operating altitude: 5000m	IEC 60950-1: 2005 +A1+A2, UL 62368-1, 2 nd Edition, 2014-12-01, CSA C22.2 No. 62368-1-14, 2nd Edition, 2014-12 UL 60950-1, 2nd Edition, 2014-10-14, CAN/CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10, EN 60950-1: 2006+A11+A1+A1 2+A2, EN 62368-1: 2014	CB by TUV RH, UL/cUL
(Alternate)	Chicony (hp)	TPN-CA06	I/P: 100-240 Vac, 50-60 Hz, 1.7 A O/P: 5 Vdc, 3 A or 9 Vdc, 3 A or 10 Vdc, 5 A or 12 Vdc, 5 A or 15 Vdc, 4.33 A or 20 Vdc, 3.25 A. Max operating altitude: 5000m.	IEC 60950-1: 2005 +A1+A2, UL 60950-1, 2 nd Edition, 2014-10-14, CAN/CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10 EN 60950-1: 2006+A11+A1+A1 2+A2, IEC 62368-1:2014 (Second Edition)	CB by Demko, UL/cUL
(only for rated 19.5 Vdc, 2.31 or 3.33 A)	Delta (hp)	HSTNN-DA14	I/P: 100-240 Vac, 50-60 Hz, 1.5 A O/P: 19.5Vdc, 3.33A; 5Vdc, 1.5A. Max. operating altitude: 5000 m or 3048 m	IEC 60950-1: 2005+A1+A2, EN 60950-1: 2006+A11+1+A12+A2, UL 60950-1, 2nd Edition, 2011-12- 19, CSA C22.2 No. 60950-1-07, 2nd Edition, 2011-12	CB by NEMKO, TÜV, UL/cUL
(only for rated 19.5 Vdc, 2.31 or 3.33 A)	Interchangeable	Interchangeable	O/P: 19.5 Vdc, 3.33 A min., Max. operating altitude: 3048 m min.	IEC 60950-1: 2005+A1+A2	CB (issued by NCB)
(only for rated 20 Vdc, 2.25 A)	Interchangeable	Interchangeable	O/P: 20 Vdc, 2.25 A min., Max. operating altitude: 3048 m min.	IEC 60950-1: 2005+A1+A2	CB (issued by NCB)

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(only for rated 20 Vdc, 2.25 or 3.25 A)	Interchangeable	Interchangeable	O/P: 20 Vdc, 3.25 A min., Max. operating altitude: 3048 m min.	IEC 60950-1: 2005+A1+A2	CB (issued by NCB)
- Battery Pack (Optional)	Dynapack (hp)	HSTNN-DB8J	11.55Vdc, 50Wh or 4330 mAh or 4113 mAh, 3 cells, Tma: 40 °C	IEC 62368-1:2014 (ed.2), UL 62368-1, 2nd Edition, 2014-12-01, CSA C22.2 No. 62368-1-14, 2nd Edition, 2014-12, IEC 62133: 2012 (ed.2) UL 2054	CB by UL, UL
(Alternate)	LG Chem (hp)	HSTNN-LB8G	11.55Vdc, 50Wh or 4330 mAh or 4113 mAh, 3 cells, Tma: 45 °C	IEC 62368-1:2014 (ed.2), UL 62368-1, 2nd Edition, 2014-12-01, CSA C22.2 No. 62368-1-14, 2nd Edition, 2014-12, IEC 62133: 2012 (ed.2), UL 60950-1 2nd, CAN/CSA-C22.2 No. 60950-1-07, UL 2054	CB by UL, UL
(Alternate)	Simplo (hp)	HSTNN-IB8C	11.55Vdc, 50Wh or 4330 mA, 3 cells, Tma: 45 °C	IEC 62368-1:2014 (ed.2), UL 62368-1, 2nd Edition, 2014-12-01, IEC 60950-1:2005+A1+A2, UL 60950-1, 2nd Edition, 2014-10-14, CAN/CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10 IEC 62133: 2012 (ed.2), UL 2054 CSA C22.2 No. 62368-1-14, 2nd Edition, 2014-12	CB by UL, UL
(Alternate)	Samsung SDI Co Ltd (hp)	HSTNN-UB7S	11.55Vdc, 50Wh or 4113 mAh, 3 cells, Tma: 35 °C	IEC 62368-1:2014 (ed.2), UL 62368-1, 2nd Edition, 2014-12-01, CSA C22.2 No. 62368-1-14, 2nd Edition, 2014-12, IEC 62133: 2012 (ed.2), UL 60950-1 2nd, UL 2054 CAN/CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10	CB by UL, CB by DEKRA, UL

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- Enclosure (for display bezel) (only for non-touch panel used)	Covestro	FR3040 + (+ - Material designations may be followed by a six digit numerical code denoting color)	V-1 min., Min. 0.6 mm, 80 °C	UL 94	UL
(Alternate)	SABIC	CX7240 (GG) (GG) - Denotes a global grade formulation previously in File E161759. NOTE - Material designation may be followed by a colornomenclature consisting of either an alpha /numeric or numeric /alpha combination.	V-1 min., Min. 0.6 mm, 70 °C	UL 94	UL
- CPU Cooling Fan	Delta	NS85C10XXXX XXXXXXX(X=A-Z, 0-9, "- " or blank for marketing purpose only)	5 Vdc, 0.5 A, 4.00 CFM min.	IEC 60950-1: 2005+A1+A2, EN60950-1: 2006+A11+A1+A12+A2, UL507	TÜV, UL
(Alternate)	FCN	DF(X)481305M C0T (X may be B, C or S)	5 Vdc, 0.5 A, 4.80 CFM min.	EN60950-1: 2006+A11+A1+A12+A2, IEC 60950-1, UL507	TÜV, UL
(Alternate)	Sunon	EG75050S1-CZ (Z stands for 30 characters. Each character stands for 0-9, A-Z, "((", ")", " ", " ", " ", " " or blank for marketing purpose only)	5 Vdc, 0.45 A, 3.9 CFM min.	EN60950-1: 2006+A11+A1+A12+A2, IEC 60950-1, UL507	TÜV, UL
(Alternate)	Interchangeable	Interchangeable	5 Vdc, 0.5 A max, 3.9 CFM min.	IEC 60950-1: 2005+A1+A2, EN60950-1: 2006+A11+A1+A12+A2, UL507	TÜV, UL

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- LCD Panel	AUO	B140HAByyyy (y=0-9, A-Z, a-z, "-" or blank)	14" TFT, LED backlight type.	--	--
(Alternate)	AUO	B140HAKyyyy (y=0-9, A-Z, a-z, "-" or blank)	14" TFT, LED backlight type.	--	--
(Alternate)	AUO	B140HANyyyy (y=0-9, A-Z, a-z, "-" or blank)	14" TFT, LED backlight type.	--	--
(Alternate)	AUO	B140ZANyyyy (y=0-9, A-Z, a-z, "-" or blank)	14" TFT, LED backlight type.	--	--
(Alternate)	BOE	NV140FHMyyyy (y=0-9, A-Z, a-z, "-" or blank)	14" TFT, LED backlight type.	--	--
(Alternate)	BOE	NV140QUMyyyy (y=0-9, A-Z, a-z, "-" or blank)	14" TFT, LED backlight type.	--	--
(Alternate)	InnoLux Corporation	N140HCAyyyy (y=0-9, A-Z, a-z, "-" or blank)	14" TFT, LED backlight type.	--	--
(Alternate)	InnoLux Corporation	N140HCRyyyy (y=0-9, A-Z, a-z, "-" or blank)	14" TFT, LED backlight type.	--	--
(Alternate)	IVO	M140NVFAyyy (y=0-9, A-Z, a-z, "." or blank)	14" TFT, LED backlight type.	--	--
(Alternate)	IVO	R140NVFAyyy (y=0-9, A-Z, a-z, "." or blank)	14" TFT, LED backlight type.	--	--
(Alternate)	LG	LP140WF8	14" TFT, LED backlight type.	--	--
(Alternate)	LG	LP140WFA	14" TFT, LED backlight type.	--	--
(Alternate)	Interchangeable	Interchangeable	14" TFT, LED backlight type.	--	--
- Solid-State Drive(optional)	Interchangeable	Interchangeable	3.3 Vdc	--	--
- RTC Battery (Lithium) (Optional)	Interchangeable	CR2032	Max. Abnormal Charging Current: 10 mA min.	UL 1642	UL

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- Speaker (Optional)	Interchangeable	Interchangeable	3.85Ω min., 3 W max.	--	--
- PCB	Interchangeable	Interchangeable	V-1 or better, 105 °C	UL 796	UL
Supplementary information: 1) Provided evidence ensures the agreed level of compliance. See OD-CB2039.					

Anexo 3 – Lista de componentes

Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity1)
Adapter (for rating: 15Vdc, 3A)	AcBel (hp)	TPN-AA07	I/P: 100-240 Vac, 50-60 Hz, 1.4 A O/P: DC 5V, 3A; 9V, 3A; 12V, 3A; 15V, 3A; 45W Max. altitude: 5000 m, Tma: 35°C	IEC 60950-1: 2005+A1+A2, IEC 62368-1: 2014	CB by TUV
	Lite-On (hp)	TPN-LA19	I/P: 100-240 Vac, 50-60 Hz, 1.4 A O/P: DC 5V, 3A; 9V, 3A; 12V, 3A; 15V, 3A altitude: 5000 m, Tma: 35°C	IEC 60950-1: 2005+A1+A2, IEC 62368-1: 2014	CB by TUV
	Delta (hp)	TPN-DA15	I/P: 100-240 Vac, 1.4 A Max., 50-60 Hz O/P: DC 5V, 3A; 9V, 3A; 12V, 3A; 15V, 3A altitude: 5000 m, Tma:	IEC 60950-1: 2005+A1+A2, IEC 62368-1: 2014	CB by TUV

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	Chicony (hp)	TPN-CA20	I/P: 100-240 Vac, 50-60 Hz, 1.4 A O/P: DC 5V, 3A; 9V, 3A; 12V, 3A; 15V, 3A; 45W Max. altitude: 5000 m, Tma: 35°C	IEC 60950-1: 2005+A1+A2, IEC 62368-1: 2014	CB by TUV
	Interchangeable	Interchangeable	O/P: 15 Vdc, 3 A min. altitude: 3048 m min., Tma: 35°C min.	IEC 60950-1: 2005+A1+A2, IEC 62368-1: 2014	CB (issued by National Certification Body)
Adapter (for rating: 19.5Vdc, 2.31A)	AcBel (hp)	TPN-AA05	I/P: 100-240 Vac, 1.4 A, 50- 60 Hz O/P: 19.5 Vdc, 2.31 A altitude: 5000 m, Tma: 35°C	IEC 60950-1: 2005+A1+A2, IEC 62368-1: 2014	CB by TUV
	Chicony (hp)	TPN-CA14	I/P: 100-240 Vac, 1.4 A, 50- 60 Hz O/P: 19.5 Vdc, 2.31 A, 45 W altitude: 5000 m, Tma: 35°C	IEC 60950-1: 2005+A1+A2, IEC 62368-1: 2014	CB by TUV
	Chicony (hp)	TPN-CA15	I/P: 100-240 Vac, 1.4 A, 50- 60 Hz O/P: 19.5 Vdc, 2.31 A, 45 W altitude: 5000 m, Tma: 35°C	IEC 60950-1: 2005+A1+A2, IEC 62368-1: 2014	CB by TUV
	Lite-On (hp)	TPN-LA15	I/P: 100-240 Vac, 50-60 Hz, 1.1 A O/P: 19.5 Vdc, 2.31 A altitude: 5000 m, Tma: 35°C	IEC 60950-1: 2005+A1+A2, IEC 62368-1: 2014	CB by UL

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	Delta (hp)	TPN-DA16	I/P: 100-240 Vac, 1.4 A, 50- 60 Hz O/P: 19.5 Vdc, 2.31 A altitude: 5000 m, Tma: 35°C	IEC 60950-1: 2005+A1+A2, IEC 62368-1: 2014	CB by TUV
	Interchangeable	Interchangeable	O/P: 19.5 Vdc, 2.31 A min. altitude: 3048 m min.	IEC 60950-1: 2005+A1+A2, IEC 62368-1: 2014	CB (issued by National Certification Body)
Adapter (for rating: 20Vdc, 3.25A)	AcBel (hp)	TPN-AA03	I/P: 100-240 Vac, 50-60 Hz, 1.4 A O/P: DC 5V, 3A; 9V, 3A; 10V, 5A; 12V, 5A; 15V, 4.33A; 20V, 3.25A, 65W Max. altitude: 5000 m, Tma: 35°C	IEC 60950-1: 2005+A1+A2	CB by TUV
	Chicony (hp)	TPN-CA06	I/P: 100-240 Vac, 1.7 A, 50- 60 Hz O/P: DC 5V, 3A; 9V, 3A; 10V, 5A; 12V, 5A; 15V, 4.33A; 20V, 3.25A, 65W Max. altitude: 5000 m, Tma: 35°C	IEC 60950-1: 2005+A1+A2, IEC 62368-1: 2014	CB by TUV
	Interchangeable	Interchangeable	O/P: 20 Vdc, 3.25 A min. altitude: 3048 m min.	IEC 60950-1: 2005+A1+A2, IEC 62368-1: 2014	CB (issued by National Certification Body)
Adapter (for rating: 19.5Vdc, 3.33A)	AcBel (hp)	TPN-AA06	I/P: 100-240 Vac, 50-60 Hz, 1.7 A O/P: 19.5 Vdc, 3.33 A altitude: 5000 m, Tma: 35°C	IEC 60950-1: 2005+A1+A2, IEC 62368-1: 2014	CB by TUV

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	Chicony (hp)	TPN-CA16	I/P: 100-240 Vac, 1.7 A, 50- 60 Hz O/P: 19.5 Vdc, 3.33 A, 65 W altitude: 5000 m, Tma: 35°C	IEC 60950-1: 2005+A1+A2, IEC 62368-1: 2014	CB by TUV
	Chicony (hp)	TPN-CA17	I/P: 100-240 Vac, 1.7 A, 50- 60 Hz O/P: 19.5 Vdc, 3.33 A, 65 W altitude: 5000 m, Tma: 35°C	IEC 60950-1: 2005+A1+A2, IEC 62368-1: 2014	CB by TUV
	Lite-On (hp)	TPN-LA17	I/P: 100-240 Vac, 50-60 Hz, 1.7 A O/P: 19.5 Vdc, 3.33 A altitude: 5000 m, Tma: 35°C	IEC 60950-1: 2005+A1+A2, IEC 62368-1: 2014	CB by UL
	Lite-On (hp)	TPN-LA16	I/P: 100-240 Vac, 50-60 Hz, 1.7 A O/P: 19.5 Vdc, 3.33 A altitude: 5000 m, Tma: 35°C	IEC 60950-1: 2005+A1+A2, IEC 62368-1: 2014	CB by UL
	Delta (hp)	TPN-DA17	I/P: 100-240 Vac, 1.7 A, 50- 60 Hz O/P: 19.5 Vdc, 3.33 A altitude: 5000 m, Tma: 35°C	IEC 60950-1: 2005+A1+A2, IEC 62368-1: 2014	CB by TUV
	Interchangeable	Interchangeable	O/P: 19.5 Vdc, 3.33 A min. altitude: 3048 m min.	IEC 60950-1: 2005+A1+A2, IEC 62368-1: 2014	CB (issued by National Certification Body)
Battery pack (Li- ion type)	Samsung SDI	HSTNN-UB7R	11.55Vdc, 45Wh or 3750mAh	IEC 62133: 2012, IEC 62368-1: 2014	CB by DEKRA (IEC 62133) CB by UL (IEC 62368)
	Zhuohai CosMX	HSTNN-OB1C	11.55Vdc, Nom: 3900mAh 45Wh. Rated: 3750mA	IEC 62133: 2012, IEC 62368-1: 2014	CB by TUV (IEC62133) CB by UL (IEC 62368)

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	Dynapack	HSTNN-DB9A	11.55 Vdc, 45 Wh or 3750mAh or 3900mAh	IEC 62133: 2012, IEC 62368-1: 2014	CB by UL
Panel	AUO	B140HAN04.0	14.0 inch TFT-LCD, LED backlight	--	--
	Interchangeable	Interchangeable	14.0 inch TFT-LCD, LED backlight	--	--
Metal Enclosure (except for bottom case and display bezel)	Interchangeable	Interchangeable	Metallic, 0.7 mm thickness min.	--	--
Plastic Enclosure (for bottom case)	LG CHEM LTD	LUPOY ER-2253F(#) (#) - May be followed by optional suffix letter from A-Z incl., except F, and except Grades HT700B, LI912A, AF303G, AF303S, XR404T, XR407D, XR407E.	V-0, min. thickness 0.8 mm, 80°C	UL 94	UL (E67171)
	TEIJIN CHEMICALS PLASTIC COMPOUNDS SHANGHAI LTD	GXV-35(cc)U(#) (#) - Suffix optional (cc) - 10 through 30.	V-0, min. thickness 0.75 mm, 80°C	UL 94	UL (E244324)
Plastic Enclosure (for keyboard frame)	LG CHEM LTD	LUPOY GN-5151RF(#) (#)-may be followed by optional suffix letter from A-Z incl., except F, and except Grades AF302G, HT700B, XR401B, LI912A, AF303G, AF303S, XR404T, XR407D, XR407E, HF380X	V-0, min. thickness 1.0 mm, 60°C	UL 94	UL (E67171)
	TEIJINCHEMICALS PLASTIC COMPOUNDS SHANGHAI LTD	TN-3715B(n1)(n1)- may be suffixed with nay letters except D and Z	V-0, min. thickness 1.0 mm, 60°C	UL 94	UL (E98529)

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Plastic Enclosure (for display bezel)	LG CHEM LTD	GN-5101RF(#) (#)-May be followed by optional suffix letter from A-Z incl., except F, and except Grades HT700B, XR401B, LI912A, AF303G, AF303S, XR404T, XR407D, XR407E	V-0, min. thickness 0.75 mm, 60°C	UL 94	UL (E67171)
	TEIJIN CHEMICALS PLASTIC COMPOUNDS SHANGHAI LTD	TN-3713B(#) (#) -Suffix optional	V-0, min. thickness 1.0 mm, 60°C	UL 94	UL (E98529)
	TEIJIN CHEMICALS PLASTIC COMPOUNDS SHANGHAI LTD	TN-3713B(#) (#) -Suffix optional	V-0, min. thickness 1.0 m	UL 94	UL (E244324)
DC Fan (UMA SKU)	Delta	NS75C00- 18E05	5Vdc, 0.5A, 3.3CFM	--	Tested in appliance
	Suzhou Forcecon Electric Co., Ltd.	0FL8J0000H	5Vdc, 0.5A, 3.23CFM	--	Tested in appliance
	Interchangeable	Interchangeable	5Vdc, 0.5A max., 3.23CFM min.	IEC 60950-1	TÜV, S, VDE or other EU certification marks
DC Fan (DIS SKU)	Delta	ND75C23- 18E06	5Vdc, 0.5A, 3.35CFM	--	Tested in appliance
	Suzhou Forcecon Electric Co., Ltd.	0FL010000H	5Vdc, 0.5A, 3.9CFM	--	Tested in appliance
	Interchangeable	Interchangeable	5Vdc, 0.5A max., 3.35CFM min.	IEC 60950-1	TÜV, S, VDE or other EU certification marks
Power distribution switch (for USB ports)	Global Mixed- mode Technology Inc. (GMT)	G517HX1X2X3 X4 (X1=1, 2, 3, or 4; X2=T1, TB, TO, TP or P8; X3=1, 2 or 3; X4=U or D)	Input Voltage: 2.7-5.5Vdc, Output Continuous Rating: 2.6 A Output Current Limit: 2.7-3.9 A	IEC 60950-1: 2005+A1+A2, UL 2367	CB by TUV, UL

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	DIODES INC	AP22804AW5-7	Input Voltage: 2.5 to 5.5 Vdc, Output Continuous Rating: 2.5A, Output Current Limit: 3.3 A	IEC 60950-1: 2005+A1+A2	CB by UL, UL
	EXCELLIANCE MOS CORPORATION	EM5213AJ-25	Input Voltage: 2.5 to 5.5 Vdc, Output Continuous Rating: 2.5A, Output Current Limit: 2.5A	IEC 60950-1: 2005+A1+A2, UL 2367	CB by UL, UL
Power distribution switch (for HDMI port)	DIODES INC	AP2331, followed by FJ, SA or W, may be followed by additional letters and/or numbers	Input Voltage: 2.7 to 5.5 Vdc, Output Continuous Rating: 0.2A, Output Current Limit: 0.5A	IEC 60950-1: 2005+A1+A2, UL 2367	CB by TUV RH, UL
	Global Mixed- mode Technology Inc.	G5250Q1T73U	Input Voltage: 2.7 to 5.5 Vdc, Output Continuous Rating: 0.2A Output Current Limit: 0.5A	IEC 60950-1: 2005+A1+A2, UL 2367	CB by TUV, UL
Type C current- limited power switch	NXP Semiconductor Taiwan Ltd.	NX5P3290AUK, NX5P3363UK	Input voltage: 4.0 Vdc - 5.5 Vdc Output current limit: 3.3 A	IEC 62368-1: 2014, UL 2367	CB by UL, UL
Speaker	Interchangeable	Interchangeable	4 +15% ohm, 2.5W max.	Applicable parts of IEC 60950-1	Tested in appliance
Hard Disc Drive (optional)	Western Digital Technologie, Inc.	WDUUUUVZVTX -YYXXYY, Where U can be any number or blank, "Z" can be any alpha character and where "V" and "T", "X" and "Y" can be any alphanumeric character or blank	5Vdc, 1.5A	IEC 60950- 1:2005; am1:2009	TUV RORD; UL

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	Interchangeable	Interchangeable	5Vdc, 1.5A max.	IEC 60950-1	TUV, UL, CB (issued by National Certification Body)
SSD (optional)	Lite-On Technology Corporation	CV1- 8Bxxxxxxx, x can be any alphanumeric character or blank.	3.3Vdc, 5Vdc, optional	IEC 60950-1:2005+A1+A2	CB by TUV RH
	Interchangeable	Interchangeable	3.3Vdc, 5Vdc, optional	IEC 60950-1	TUV, UL, CB (issued by National Certification Body)

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