

Product environmental attributes - THE ECO DECLARATION

The declaration may be published only when all rows and/or fields marked with an * are filled-in (n.a. for not applicable).

Additional information regarding each item may be found under P14.

Brand *	ThinkPad	Logo			
Company name *	Lenovo				
Contact information *	Lenovo Global Environmental Affairs Alvin L Carter 1009 Think Place Building 2 / 5F1 Morrisville, North Carolina 27560 alcarter@lenovo.com	lenovo.			
Internet site *	http://www.lenovo.com/social_responsibility/us/en/environment.html				
Additional information	The latest version of this document can be found at http://www.lenovo.com/social_responsibility/us/en/datasheets_notebooks.html				

	The company declares (based on product specification or test results based obtained from sample testing), that the product conforms to the statements given in this declaration.				
Type of product *	Notebook PC				
Commercial name *	ThinkPad Helix				
Model number *	20CG, 20CH				
Issue date *	2014, November 1				
Intended market *	☐ Global ☐ Europe ☐ Asia, Pacific & Japan ☐ Americas ☐ Other				
Additional information					

This is an uncontrolled copy when in printed form. Please refer to the contact information for the latest version.

Quality	Control	Requireme	nt met
Item		Yes	No
QC1 *	The company enforces an internal quality control scheme to ensure the correctness of this eco declaration	\boxtimes	
QC2 *	The company is a member of an eco declaration system that enforces regular independent quality contro such as organized by IT-Företagen (see www.itecodeclaration.org).		

Model number *	20CG, 20CH		
Issue date *	2014, November 1	Logo	lenovo.

Product	environmental attributes - Legal requirements	Requirement met		
Item		Yes	No	n.a.
P1	Hazardous substances and preparations			
P1.1*	Products do not contain more than; 0.1% lead, 0.01% cadmium, 0.1% mercury, 0.1% hexavalent chromium, 0.1% polybrominated biphenyls (PBB) or 0.1% polybrominated diphenyl ethers (PBDE). (See legal reference and Note B1)			
P1.2*	Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value.	\boxtimes		
P1.3*	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrobromofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values.			
P1.4*	Products do not contain more than; 0.005% polychlorinated biphenyl (PCB), 0.005% polychlorinated terphenyl (PCT) in preparations (see legal reference).			
P1.5*	Products do not contain more than 0.1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the chain containing at least 48% per mass of chlorine in the SCCP (see legal reference).	\boxtimes		
P1.6*	Textile and leather parts with direct skin contact do not contain Tri-(2,3,-dibromopropyl)-phosphate (TRIS), Tris-(aziridinyl)-phosphineoxide (TEPA), polybrominated biphenyl (PBB) (see legal reference). Comment: Legal reference has no maximum concentration values.			
P1.7*	Textile and leather parts with direct skin contact do not contain more than 0.003% Azo colorants that split aromatic amines. (See legal reference and Note B1)			\boxtimes
P1.8*	Wooden parts do not contain arsenic and chromium as a wood preservation treatment as well as pentachlorophenol and derivatives (see legal reference). Comment: Legal reference has no maximum concentration values.			
P1.9*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0.5 microgram/cm²/week (see legal reference). Comment: Max limit in legal reference when tested according to EN1811:1998.			
P1.10*	REACH Article 33 information about substances in articles is available at (add URL or mail contact): http://www.lenovo.com/social_responsibility/us/en/materials.html			
P2	Batteries			
P2.1*	If the product contains a battery or an accumulator, it is labeled with the disposal symbol and if it contains more than 0.0005% of mercury (for button cells only) by weight, or more than 0.004% of lead, it shall be marked with the chemical symbol for the metal concerned, Hg or Pb. Information on proper disposal is provided in user manual. (See legal reference)			
P2.2*	Button cells used in the product do not contain more than 2% by weight of mercury. Other batteries or accumulators do not contain more than 0.0005% of mercury or 0.002% of cadmium. (See legal reference)	\boxtimes		
P2.3*	Batteries and accumulators are easily removable by either users or service providers (as dependent on the design of the product). Exception: Batteries that are permanently installed for safety, performance, medical or data integrity reasons do not have to be "easily removable". (See legal reference)			
P3	Safety, EMC connection to the telephone network and labeling			
P3.1*	The product complies with legally required safety standards as specified (see legal reference).	\boxtimes		
P3.2*	The product complies with legally required standards for electromagnetic compatibility (see legal reference).			
P3.3*	If product is intended for connection to a public telecom network or contains a radio transmitter, it complies with legally required standards for radio and telecommunication devices (see legal reference).	s 🔀		
P3.4*	The product is labeled to show conformance with applicable legal requirements (see legal reference).	X		
P4	Consumable materials			
P4.1*	If a photo conductor (drum, belt etc.) is used in the product, it does not contain cadmium max 0.01% (see legal reference and Note B1).			
P4.2*	If ink/toner is used in the product, it does not contain cadmium max 0.1% by weight (see legal reference).			X
P4.3*	If the ink/toner formulation/preparation is classified as hazardous according to applicable regulations, the product/packaging is adequately labeled and a Safety Data Sheet (SDS) in accordance with these requirements is available (see legal reference).			
P5	Product packaging			
P5.1*	Packaging and packaging components do not contain more than 0.01% lead, mercury, cadmium an hexavalent chromium by weight of these together.	d 🔀		
P5.2*	Plastic packaging material is marked according to ISO 11469 referring ISO 1043 (see legal reference).	\boxtimes		
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montrea Protocol (see legal reference). Comment: Legal reference has no maximum concentration values.	al 🔀		

Note B1: Restriction applies to the homogeneous material, unless other specified and expressed in weight %.

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Product	roduct environmental attributes - Market requirements - Environmental conscious design Requirement met						
Item	*=mandatory to fill in. Additional information regarding each item may be found under P14.	Yes	No	n.a.			
P6	Treatment information						
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).	\boxtimes					
P7	Design						
D7.4*	Disassembly, recycling Detailed the standard and a		_				
P7.1*	Parts that have to be treated separately are easily separable			-			
P7.2*	Plastic materials in covers/housing have no surface coating.			_ <u></u>			
P7.3*	Plastic parts >100g consist of one material or of easily separable materials.			<u>Ц</u>			
P7.4*	Plastic parts >25g have material codes according to ISO 11469 referring ISO 1043.						
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.	\boxtimes					
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).	\boxtimes					
	Product lifetime						
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives	\boxtimes					
P7.8*	Upgrading can be done using commonly available tools	\boxtimes					
P7.9.	Spare parts are available after end of production for: 5 years			╗			
P7.10	Service is available after end of production for: 5 years			一百			
	Material and substance requirements						
P7.11*	Product cover/housing material type:						
	Material type: PC+ABS-FR(40) Material type: Magnesium Material type: Aluminium						
P7.12	Electrical cable insulation materials of power cables are PVC free.		\boxtimes				
P7.13	Electrical cable insulation materials of signal cables are PVC free	\boxtimes					
P7.14	All cover/housing plastic parts >25g are free from chlorine and bromine.	\boxtimes		П			
P7.15	All printed circuit boards (without components) >25g are halogen free. as defined in IEC61249-2-21. (See			\blacksquare			
	Note B2)						
P7.16	Flame retarded plastic parts >25g in covers / housings are marked according ISO 1043-4: Marking: FR(40)	\boxtimes					
P7.17	Alt. 1						
	Chemical specifications of flame retardants in printed circuit boards >25g (without components):						
	TBBPA (additive) , TBBPA (reactive) , Other; chemical name : DOPO(9,10-dihydro-9-oxa-10-			_			
	phosphaphenanthrene-10-oxide), CAS #: 35948-25-5						
	All O						
	Alt. 2 Chemical specifications of flame retardants in printed circuit boards (without components) >25g according	Ш					
	ISO 1043-4: FR(40)						
P7.18	Alt. 1						
	Flame retarded plastic parts >25g contain the following flame retardant substances/preparations in						
	concentrations above 0.1%:						
	Comment: No legal limits exist, this is a market requirement.						
	1. Chemical name: , CAS #: 2. Chemical name: , CAS #:						
	3. Chemical name: , CAS #:						
	Alt. 2						
	Chemical specifications of flame retardants in plastic parts >25g according ISO 1043-4:						
	FR(40)						
P7.19	Plastic parts >25g are free from flame retardant substances/ preparations above 0.1% classified as R45, R40, R46, R48, R50, R51, R53, R60, R61 and any combination of these (See Note B3)		Ш				
P7.20	Of total plastic parts' weight >25g, recycled material content is <i>0</i> %.						
P7.21	Of total plastic parts' weight >25g, biobased material content is 0%.						
P7.22	Light sources are free from mercury	\boxtimes					
Do	If mercury is used specify: Number of lamps: and max. mercury content per lamp: mg						
P8	Batteries Patteries Patteries Companies Companies						
P8.1*	Battery chemical composition: Lithium lon/Lithium Manganese Dioxide			-			
P8.2	Batteries meet the requirements of the following voluntary program/s: US Call2Recycle, EPBA, JBRC						

Note B2: IEC61249-2--21 has maximum limits for chlorine and bromine but does not address fluorine, iodine and astatine which are included in the group of halogens.

Note B3: 'Starting from January 2009, Risk phrases can be replaced by Hazard phrases according to the Globally Harmonized System (GHS), mandatory by December 2010.

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Item	environmentai a	attributes - Market	requirements (continuea)	Yes No i	net n.a.
P9	Energy consum	ption				
9.1 For the product the following power levels or energy consumptions are reported: See P14						
Energy mo	de *	Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference / Standard for energy modes and test method *	
Peak (On-	max)	<i>36</i> W	<i>36</i> W	<i>36</i> W	Full load	
Categor	y <u>0</u>	<u>.</u>				
Short Idle	State	6.516 W	<i>5.220</i> W	<i>5.676</i> W	Use for Energy Star V6.1 registration(PSHORT_IDLE)	
Long Idle	State	6.516 W	<i>5.220</i> W	<i>5.676</i> W	Use for Energy Star V6.1 registration(PLONG_IDLE)	
Sleep (S3))	0.660 W	0.672 W	0.624 W	Use for Energy Star V6.1 registration(PSLEEP)	
Off (S5)		0.120 W	0.120 W	<i>0.168</i> W	Use for Energy Star V6.1 registration(Poff)	
Categor	y <u> 1</u>					
Short Idle	State	5.892 W	<i>5.952</i> W	<i>6.768</i> W	Use for Energy Star V6.1 registration(PSHORT_IDLE)	
Long Idle	State	5.892 W	5.952 W	<i>6.768</i> W	Use for Energy Star V6.1 registration(PLONG_IDLE)	
Sleep (S3))	0.792 W	0.804 W	<i>0.816</i> W	Use for Energy Star V6.1 registration(PSLEEP)	
Off (S5)		0.180 W	0.180 W	0.228 W	Use for Energy Star V6.1 registration(Poff)	
charger plu	power supply / ugged in the wall disconnected from	W	0.0588 W	0.0936 W		
PTEC *	ergy Consumption	W	W	W		
TEC * Typical En	ergy Consumption	kWh/week	kWh/week	kWh/week		
ETEC * Annual En	ergy Consumption	0:25.12, 11:23.47 kWh/year	0:20.61, 11:23.72 kWh/year	0: 22.17, 11:26.72 kWh/year	ETEC = (8760/1000) X (POFF × TOFF + PSLEEP × TSLEEP + PLONG_IDLE × TLONG_IDLE + PSHORT_IDLE × TSHORT_IDLE)	
Dienlay roo	solution* : 1366x7	760 Divole				
Print Spee		Images per minute				
P9.2*		save mode: 10 minutes t the energy save func		th the product		\vdash
P9.3*		ts the energy requirem		<u> </u>	gram/a:	Ш
F 9.3	•	® version: <i>Version 6.1</i>		duct category:		
P10	Emissions					
P10.1	Noise emission Mode	 Declared according Mode description 	to ISO 9296	Declared	Declared A-weighted	
F 10.1	Mode	wode description		A-weighted sound power	sound pressure level $L_{p{\sf Am}}$ (dB)	
				level L_{WAd} (B) Operator position Bystander positions Desktop On Desk side Only if product is not operator attended)	
	Idle	* Idle mode		* 2.7	17	
	Operation	* Operating(CPU)		* 2.7	17	
	Other mode		7			
	Measured accord	ding to: ISO7779 Differ		red by ECMA 74	with L _{pAm} measurement distance m)	
P10.2						

	Model nur	mber *	20CG, 20CH				
Chemical emissions from printing products	Issue date	date * 2014, November 1 Logo ler			lenov	10.	
Chemical emissions from printing products							
Chemical emissions from printing products	Product	environn	nental attributes - Market requirements (continued)		Requirer	nent	met
P10.3° Test performed according to ECMA-328 (ISO/IEC 28360) standard, other specify:	Item				Yes	No	n.a.
P10.4 Typical emission rate (print phase) is (mg/h): Dust Ozone Styrene TVOC Dust Ozone Styrene TVOC Dust Ozone Styrene Benzene TVOC		Chemica	al emissions from printing products				_
P10.5 Chemical emission requirements of the following voluntary program/s are met for: Dust			, , ,				\boxtimes
P10.5 Chemical emission requirements of the following voluntary program/s are met for: Dust	P10.4		. , , , , , , , , , , , , , , , , , , ,				\boxtimes
Dust						_	
Pilo.6 Computer display meets the requirement for low frequency electromagnetic fields of the following voluntary programs: MPAII(3 pin AC adapter only)	P10.5						\boxtimes
P11.6 Computer display meets the requirement for low frequency electromagnetic fields of the following voluntary program/s: MPR-II(3 pin AC adapter only) P11 Consumable materials for printing products P11.1 A Safety Data Sheet (SDS) is available for the ink/toner preparation, even if not legally required (see P4.3). P11.2 Paper containing post-consumer recycled fibers can be used, provided that it meets the requirements of N12281. P12.3 Paper containing post-consumer recycled fibers can be used, provided that it meets the requirements of SN12281. P12.4 Ergonomics for computing products P12.1 The physical input device meets the requirements of ISO 9241-307 for visual display technologies. P12.2 The physical input device meets the requirements of ISO 9995 and ISO 9241-410. P13 Packaging and documentation Retail packaging: Product packaging material type(s): Corrugated cardboard weight (kg): 0.420 Product packaging material type(s): Corrugated cardboard weight (kg): 0.629 Product packaging material type(s): Corrugated Expanded Polyethylene (RLDPE) Cushions P14.2 Product packaging: Product packaging material type(s): Others (Polyethylene bags etc) weight (kg): 0.066 Product packaging material type(s): Corrugated cardboard weight (kg): 0.079 P13.2 Product packaging material type(s): Corrugated Cardboard Product packaging material type(s): 100% Recycled Expanded Polyethylene (RLDPE) Cushions P13.2 Product packaging material type(s): Others (Polyethylene bags etc) weight (kg): 0.078 P13.3 Product packaging material type(s): Others (Polyethylene bags etc) weight (kg): 0.035 P13.3 Specify media for user and product documentation (tick box): Electronic S. Paper S. Other P14 Additional information (See Note B4) NOTE: Supplier makes no representations, guarantees, assurances or warranties whether express or implied, regarding the information contained in this document. All information approvided by supplier in this document is provided based on supplier's knowledge available at the time of completion, and supplier shall ha			<u> </u>	TVOC			
program/s: MPR-II(3 pin AC adapter only) P11	D10.6			lowing voluntary		_	_
P11.1* A Safety Data Sheet (SDS) is available for the ink/toner preparation, even if not legally required (see P4.3).	F 10.0			lowing voluntary		Ш	Ш
P11.1* A Safety Data Sheet (SDS) is available for the ink/toner preparation, even if not legally required (see P4.3). Paper containing post-consumer recycled fibers can be used, provided that it meets the requirements of EN12281. Paper containing post-consumer recycled fibers can be used, provided that it meets the requirements of EN12281. P11.3* 2-sided (duplex) printing/copying is an integrated product function. P12. Ergonomics for computing products P12.1* The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies. P12.2* The physical input device meets the requirements of ISO 9995 and ISO 9241-410. P13. Packaging and documentation P13.1* Retail packaging material type(s): Corrugated cardboard weight (kg): 0.420 weight (kg): 0.629 Product packaging material type(s): Corrugated cardboard Product packaging material type(s): Corrugated Expanded Polyethylene (RLDPE) Cushions P13. Packaging material type(s): Corrugated cardboard weight (kg): 0.066 Weight (kg): 0.066 Product packaging material type(s): Corrugated cardboard Product packaging material type(s): Corrugated cardboard Product packaging material type(s): 100% Recycled Expanded Polyethylene (RLDPE) Cushions P13.2* Product packaging material type(s): Corrugated Expanded Polyethylene (RLDPE) Cushions Weight (kg): 0.078 Product packaging material type(s): 100% Recycled Expanded Polyethylene (RLDPE) Cushions P13.2* Product packaging material type(s): Others (Polyethylene bags etc) P13.3* Specify media for user and product documentation (tick box): Electronic Spackaging is free from PVC. P13.3* Specify media for user and product documentation (tick box): Electronic Spackaging is free from PVC. P13.4* For paper user and product documentation, please specify contained percentage of post-consumer recycled fiber: 0% P14 Additional information (See Note B4) NOTE: Supplier makes no representations, guarantees, assurances or warranties whether express or implied, regarding the information contained in this document. A	P11						
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P12.2* The physical input device meets the requirements of ISO 9995 and ISO 9241-410. P13 Packaging and documentation P13.1* Retail packaging: Product packaging material type(s): Corrugated cardboard Product packaging material type(s): Cardboard Product packaging material type(s): 100% Recycled Expanded Polyethylene (RLDPE) Cushions Weight (kg): 0.629 Product packaging material type(s): Others (Polyethylene bags etc) Standard packaging: Product packaging material type(s): Corrugated cardboard Product packaging material type(s): Corrugated cardboard Product packaging material type(s): 100% Recycled Expanded Polyethylene (RLDPE) Cushions Weight (kg): 0.078 Product packaging material type(s): 100% Recycled Expanded Polyethylene (RLDPE) Cushions Weight (kg): 0.078 Product packaging material type(s): Others (Polyethylene bags etc) Product packaging is free from PVC. P13.3* Specify media for user and product documentation (tick box): Electronic Paper Other P13.4* For paper user and product documentation, please specify contained percentage of post-consumer recycled fiber: 0% P14 Additional information (See Note B4) NOTE: Supplier makes no representations, guarantees, assurances or warranties whether express or implied, regarding the information contained in this document. All information provided by supplier in this document is provided based on supplier's knowledge available at the time of completion, and supplier shall have no obligation to update such information. The information provided here is approximate and provided for informational purposes only. See a Lenovo Account Representative for more information.				alaa			_
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Note B4: Additional lines may be inserted to declare further items, by positioning the cursor at the far right of the row and hitting the <Enter> key.

Legal references Europe Annex B

Reference	Declaration item
2002/95/EC (ROHS Directive)	P1.1, P4.1
REACH, Annex XVII	P1.6, P1.8, P4.2
REACH, Annex XVII	P1.4
REACH, Annex XVII	P1.2
REACH, Annex XVII	P1.7
REACH, Annex XVII	P1.9
Regulation (EC) No. 2037/2000, 2038/2000, 2039/2000	P1.3
Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002	P1.5
2006/66/EC (Battery and accumulators Directive)	P2.1, P2.2, P2,3, P3.4, P8.1
2006/95/EC (Low Voltage Directive)	P3.1, 3.4
2004/108/EEC (New EMC Directive)	P3.2, 3.4
1999/5/EC (R&TTE Directive)	P3.3, 3.4
"REACH" Regulation (1907/2006), annex VII	P1.10
(EC) No.1272/2008 regulation on classification, labeling and packaging (CLP)	P4.3
REACH article 31, annex II	P4.3
2004/12/EC (Directive on packaging and packaging waste)	P5.1
(97/129/EC) (Commission Decision on Identification System for Packaging Materials	P5.2
2037/2000/EC Regulation on Substances that Deplete the Ozone Layer	P5.3
2002/96/EC (WEEE directive)	P3.4, P6.1
(EC) No.1272/2008 regulation on classification, labeling and packaging (CLP)	P7.19

Lenovo ErP Lot3 Information Sheet

- PC / Notebook -

As required by COMMISSION REGULATION (EU) No 617/2013 of 26 June 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for computers and computer servers (ErP Lot3).

Products scope of this sheet:

Desktop computer, integrated desktop computer, and notebook computer

This document is only valid in connection with the IT Eco Declaration of the specific Product.

Commercial name	ThinkPad Helix	Logo
Model Number	20CG, 20CH	_
Issue Date	2014, November 1	lenovo.
Additional information		

P7.1.1	Product environmental attributes						
(d)	year of manufacture:	2014					
(e)	E TEC value (kWh) per ErP Lot 3 Category and capability adjustments applied when all discrete graphics cards (dGfx) are disabled and if the system is tested with switchable graphics mode with UMA driving the display:						
	Category (according to ErP Lot 3): A Etec: 10.96						
(f)	E TEC value (kWh) per ErP Lot 3 Category and capability adjustments applied when all discrete graphics cards (dGfx) are enabled:						
	Category (according to ErP Lot 3): Etec:						
(g)	idle state power demand (Watts);	3.47					
(h)	sleep mode power demand (Watts);	0.90					
(i)	sleep mode with WOL enabled power demand (Watts) (where enabled);	N/A					
(j)	off mode power demand (Watts);						
(k)	off mode with WOL enabled power demand (Watts) (where enabled);						
(I)	internal power supply efficiency at 10 %, 20 %, 50 % and 100 % of rated output power (if applicable):						
	10% 20% 50% 100% Average						
(m)	external power supply efficiency (if applicable):						
	10% 20% 50% 100% Average ;						
	or level: V						
(o)	the minimum number of loading cycles that the batteries can withstand (applies only to notebook computers):	1,000					
(p-1)	the measurement methodology used to determine information mentioned in points (I) – internal PSU efficiency: Not applicable						
(p-2)	the measurement methodology used to determine information mentioned in points (m) – external PSU efficiency:						
	EPA "Test Method for Calculating the Energy Efficiency of Single-Voltage External AC-DC and AC-AC Power Supplies" dated August 11, 2004						
(p-3)	the measurement methodology used to determine information mentioned in points (o) - loadingcycles						
	batteries: IEC 61960 measurement methodology						

(p-4)	the measurement methodology used to determine information mentioned in maximum, idle, sleep, off mode power as defined in Point P9.1 in the Product IT Eco Declaration:							
			ENER	GY STAR measurement methodology				
(q)	sequence	of steps for achievin	g a stab	ole condition with respect to power demand::				
			ENER	GY STAR measurement methodology				
(r)	description	of how sleep and/o	r off mo	de was selected or programmed:				
		By selectin	g sleep	and/or off mode thru Windows operating system				
(s)	sequence of events required to reach the mode where the equipment automatically changes to sleep and/or off mode:							
		A	utomat	ically changes to sleep after 10 minutes				
(t)				pefore the computer automatically reaches sleep mode, or another pplicable power demand requirements for sleep mode (in minutes):	10 minutes			
(u)	the length of time after a period of user inactivity in which the computer automatically reaches a power mode that has a lower power demand requirement than sleep mode (in minutes):							
(v)	the length	of time before the	display	r sleep mode is set to activate after user inactivity (in minutes):	N/A			
(w)	(w) information on the energy-saving potential of power management functionality:							
	User i	nformation describ	ed in U	ser Guide and Power Manager under ThinkVantage menu in all programs				
(x)	user inform	nation on how to ena	able the	power management functionality:				
	User i	nformation describ	ed in U	ser Guide and Power Manager under ThinkVantage menu in all programs				
(z)	the electric			test voltage in V and frequency in Hz, — total harmonic distortion of nation and documentation on the instrumentation, set-up and circuits				
			230V,	50Hz, Total Harmonic Distortion <2 %				
Addition	n Notebook B	attery Information:						
Yes		No	n/a	This notebook computer is operated by battery/ies that cannot be accept by a non-professional user.	essed and replaced			
(Battery replaces		(Battery user replaceable)		The battery[ies] in this product cannot be easily replaced themselves	laced by users			
		1	•	,				
Addition	nal informatio	n						
1								