

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 / 5J3 Morrisville, North Carolina 27560 alcarter@lenovo.com	lenovo
Internet site *	www.pc.ibm.com/ww/lenovo/about/environment	
Additional information		

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 *	lotebook PC			
Commercial name *	ThinkPad L420, L421			
Model number *	M/T: 7826/7827/7829/7853/7854/7856			
Issue date *	2011, February 25			
Intended market *	☐ Global ☐ Europe ☐ Asia, Pacific & Japan ☐ Americas ☐ Other			
Additional information	ENERGY STAR® Qualified; EPEAT GOLD Rating*; GREENGUARD Certified			

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

Quality Control Requ			
Iter	m	Yes	No
QC	The company enforces an internal quality control scheme to ensure the correctness of this eco declaration		
QC	The company is a member of an eco declaration system that enforces regular independent quality control such as organized by IT-Företagen (see www.itecodeclaration.org).		

Model number *	ThinkPad L420, L421		
	M/T: 7826/7827/7829/7853/7854/7856		
Issue date *	2011, February 25	Logo	lenovo

Product	environmental attributes - Legal requirements	Requirement me		
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.			
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).	\boxtimes		
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)			
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/environment.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*	2.3* 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, medic 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).			
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).		Щ	<u> </u>
P3.4*	The product is labeled to show conformance with applicable legal requirements (see legal reference).	\boxtimes		
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).			\boxtimes
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 and hexavalent chromium by weight of these together.			
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 Montreal Protocol (see legal reference). Comment: Legal reference has no maximum concentration values.			

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

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Produc	t environmental attributes - Market requirements - Environmental conscious design Re	equire	ment	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).			
P7	Design Disassembly, recycling			
P7.1*	Parts that have to be treated separately are easily separable		П	\Box
P7.2*	Plastic materials in covers/housing have no surface coating.			Ħ
P7.3*	Plastic parts >100g consist of one material or of easily separable materials.			+
P7.4*	Plastic parts >25g have material codes according to ISO 11469 referring ISO 1043.	X	∺	∺
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.		∺	∺
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).		╫	₩
17.0	Product lifetime			
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives			
P7.8*	Upgrading can be done using commonly available tools		\dashv	∺
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			Ħ
	Material and substance requirements			
P7.11*	Product cover/housing material type:			
	Material type: PC+ABS-FR(40) Material type: Material type:			
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		
P7.15	All printed circuit boards (without components) >25g are halogen free. as defined in IEC61249-2-21. (See Note B2)			
P7.16	Flame retarded plastic parts >25g in covers / housings are marked according ISO 1043-4: Marking: FR(40)			
P7.17	Alt. 1 Chemical specifications of flame retardants in printed circuit boards >25g (without components): TBBPA (additive), TBBPA (reactive), Other; chemical name:, CAS #:			
	Alt. 2 Chemical specifications of flame retardants in printed circuit boards (without components) >25g according ISO 1043-4: <i>Brominated Epoxy Resin See P14</i>			
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. Provide a list of all used flame retardants including MSDS for each flame retardant. The list must contain complete chemical name, CAS number and supplier. 1. Chemical name: , CAS #: , Supplier: 2. Chemical name: , CAS #: , Supplier:			
	3. Chemical name: , CAS #: , Supplier: Alt. 2 Chamical appointance of flowe retardants in plactic parts > 35g according ISO 1043 4:			
	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)			
P7.20	Of total plastic parts' weight >25g, recycled material content is 8%.			
P7.21	Of total plastic parts' weight >25g, biobased material content is 0%.			_
P7.22	Light sources are free from mercury			<u>Ш</u>
P8.1*	Batteries Pottory chamical composition: Lithium Ion/Lithium Managenese Diovide			
P8.2	Battery chemical composition: Lithium Ion/Lithium Manganese Dioxide Batteries meet the requirements of the following voluntary program/s: US RBRC			井
1 0.2	batteries meet the requirements of the following voluntary program/s. Us none			1 1

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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For the product the following power levels or energy consumptions are reported:		uct environmental attributes - Market requirements (continued) Requirement m				met
For the product the following power levels or energy consumptions are reported:	Item					
Energy mode	0, 1					
100 V AC						븯
Category A	Energy mode					
	Peak (On- max)	65/90 W	65/90 W	65/90 W	Full load	
Sleep (S3) - WOL Enabled 0.90 W	Category A					
Sleep (S3) - WOL Disabled 0.80 W 0.80 W 0.90 W Use for ENERGY STAR Registration(P _{en}) 0.70 (KS5) - WOL Disabled 0.80 W 0.80 W 0.90 W Use for ENERGY STAR Registration(P _{en}) 0.70 (KS5) - WOL Disabled 0.50 W 0.80 W 0.90 W Use for ENERGY STAR Registration(P _{en}) 0.70 (KS5) - WOL Disabled 0.50 W 0.60 W	Idle State - WOL Enabled	7.50 W	7.50 W	8.00 W	Use for ENERGY STAR Registration(P _{idle})	
Off (SS) - WOL Enabled 0.80 W 0.80 W 0.90 W Use for ENERGY STAR Registration(P _{en}) □ Off (SS) - WOL Disabled 0.80 W 0.80 W 0.90 W Use for EUP □ Category B Idlo State - WOL Enabled 10.50 W 10.60 W 11.20 W Use for ENERGY STAR Registration(P _{enn}) □ Sleep (S3) - WOL Enabled 1.07 W 1.13 W 1.22 W Use for ENERGY STAR Registration(P _{enn}) □ Off (SS) - WOL Enabled 0.64 W 0.65 W 0.83 W Use for ENERGY STAR Registration(P _{enn}) □ Off (SS) - WOL Disabled 0.62 W 0.62 W 0.82 W Use for ENERGY STAR Registration(P _{enn}) □ EPS No-bad (External power supply) / Large plugged in the wall outlet but disconnected from the product. W 0.32 W 0.37 W Use for EUP □ TEC Typical Energy Consumption W W W W W Whitweek Whitweek ETEC = 0.35*P _{ent} + 0.10*P _{steep} + 0.55*P _{stee} □ Typical Energy Consumption 24.7(A) 24.7(A) 25.6(A) 0.26(A) 0.26(A) 0.26(A) 0.26(A)	Sleep (S3) - WOL Enabled	0.90 W	0.90 W	1.30 W	Use for ENERGY STAR Registration(P _{sleep})	
Off (S5) - WOL Disabled 0.80 W 0.80 W 0.90 W Use for EUP	Sleep (S3) - WOL Disabled	1.00 W	1.00 W	1.30 W	Reference	
Allo State - WOL Enabled 10.50 W 10.60 W 11.20 W Use for ENERGY STAR Registration(P _{resp})	Off (S5) - WOL Enabled	0.80 W	0.80 W	0.90 W	Use for ENERGY STAR Registration(Poff)	
	Off (S5) - WOL Disabled	0.80 W	0.80 W	0.90 W	Use for EuP	
Sleep (S3) - WOL Enabled 1.07 W	Category B				1	
Sleep (S3) - WOL Disabled 1.06 W 1.11 W 1.21 W Reference	Idle State - WOL Enabled	10.50 W	10.60 W	11.20 W	Use for ENERGY STAR Registration(Pidle)	
Off (S5) - WOL Enabled Off (S5) - WOL Disabled Off (S5) - Wol Disable Off (S6) - Wol D	Sleep (S3) - WOL Enabled	1.07 W	1.13 W	1.22 W	Use for ENERGY STAR Registration(P _{sleep})	
Off (S5) - WOL Disabled 0.62 W 0.62 W 0.82 W Use for EuP EPS No-load (External power supply) / charger plugged in the wall outlet but disconnected from the product. TEC Typical Energy Consumption ETEC * Annual Energy Consumption TEC Annual Energy Consumption TEC Typical Energy Consumption TETEC * Annual Energy Consumption Terec * (ATA) Annual Energy Consumption Terec * (ATA) Annual Energy Consumption Terec * (ATA) The product of the tenergy requirements of the following voluntary program/s: Energy Energy Energy Save mode: 25 minutes The product meets the energy requirements of the following voluntary program/s: ENERGY STAR® version: Version 5.0 dated July 1, 2009 Product category: A, B Others specify: ENERGY STAR for External Power Supplies Eligibility Criteria Version 2 The product meets the energy requirements of the following voluntary program/s: ENERGY STAR® version: Version 5.0 dated July 1, 2009 Product category: A, B Others specify: ENERGY STAR for External Power Supplies Eligibility Criteria Version 2 The product meets the energy requirements of the following voluntary program/s: Englishility Criteria Version 2 The product meets the energy requirements of the following voluntary program/s: Englishility Criteria Version 2 The product meets the energy requirements of the following voluntary program/s: Englishility Criteria Version 2 The product meets the energy requirements of the following voluntary program/s: Englishility Criteria Version 2 The product meets the energy requirements of the following voluntary program/s: Englishility Criteria Ve	Sleep (S3) - WOL Disabled	1.06 W	1.11 W	1.21 W	Reference	\Box
EPS No-load (External power supply / charger plugged in the wall outlet but disconnected from the product.) W W W Workstation Levels Prec Typical Energy Consumption W W WWh/week kWh/week	Off (S5) - WOL Enabled	0.64 W	0.65 W	0.83 W	Use for ENERGY STAR Registration(Poff)	〒
(External power supply / charger plugged in the wall outlet but disconnected from the product.) W W W Workstation Levels) PTEC Typical Energy Consumption ETEC Typical Energy Consumption ETEC * Annual Energy Consumption Annual Energy Consumption Display resolution : 1366 x 768 Megapixels Print Speed : Images per minute Default time to enter energy save mode: 25 minutes P9.2* Information about the energy requirements of the following voluntary program/s: ENERGY STAR® version: Version 5.0 dated July 1, 2009 Product category: A, B Others specify: ENERGY STAR for External Power Supplies Eligibility Criteria Version 2 P10.1 Mode Mode Mode description Mode Mode description Noise emission — Declared according to ISO 9296 P10.1 Mode Mode description Noise emission — Declared according to ISO 9296 P10.1 Mode Mode description Noise emission — Declared Boundary Mode (B) P10.1 Declared A-weighted Sound prover level L _{WAd} (B) Operation *HDD: Idle *3.1 25 Operation *HDD: Operating 7.3.7 29 Other mode Measured according to: SISO7779 ECMA-74 Other mode Measured according to: SISO7779 ECMA-74 Other (only if not covered by ECMA-74 with L _{pam} measurement distance m)	Off (S5) - WOL Disabled	0.62 W	0.62 W	0.82 W	Use for EuP	
charger plugged in the wall outlet but disconnected from the product.) Prec Typical Energy Consumption ETC Typical Energy Consumption ETC Annual Energy Consumption ETC Shippical Energy Energy Shippical Ene	EPS No-load	W	0.32 W	0.37 W		
the product.) Prec Typical Energy Consumption RWh/week RWh/week RWh/week RWh/week RYMh/week RY						
Prec Typical Energy Consumption W W W W W W W W W						
TEC Typical Energy Consumption Record		W	W	W	(Workstation Levels)	\vdash
Typical Energy Consumption ETEC * Annual Energy Consumption 24.7(A) 31.9(B) 32.3(B) 34.9(B) ETEC = (8760/1000) * (Port * Toft + Psleep * Tsleep + Ptdle * Ttdle) * (Port * Toft + Psleep * Tsleep + Ptdle * Ttdle) * (Port * Toft + Psleep * Tsleep + Ptdle * Ttdle) * (Port * Toft + Psleep * Tsleep + Ptdle * Ttdle) * (Port * Toft + Psleep * Tsleep + Ptdle * Ttdle) * (Port * Toft + Psleep * Tsleep + Ptdle * Ttdle) * (Port * Toft + Psleep * Tsleep + Ptdle * Ttdle) * (Port * Toft + Psleep * Tsleep + Ptdle * Ttdle) * (Port * Toft + Psleep * Tsleep + Ptdle * Ttdle) * (Port * Toft + Psleep * Tsleep + Ptdle * Ttdle) * (Port * Toft + Psleep * Tsleep + Ptdle * Ttdle) * (Port * Toft + Psleep * Tsleep + Ptdle * Ttdle) * (Port * Toft + Psleep * Tsleep + Ptdle * Ttdle) * (Port * Toft + Psleep * Tsleep + Ptdle * Ttdle) * (Port * Toft + Psleep * Tsleep + Ptdle * Ttdle) * (Port * Toft + Psleep * Tsleep * Tsleep + Ptdle * Ttdle) * (Port * Toft + Psleep * Tsleep + Ptdle * Ttdle) * (Port * Toft + Psleep * Tsleep + Ptdle * Ttdle) * (Port * Toft + Psleep * Tsleep + Ptdle * Ttdle) * (Port * Toft + Psleep * Tsleep + Ptdle * Ttdle) * (Port * Toft + Psleep * Tsleep + Ptdle * Ttdle) * (Port * Toft + Psleep * Tsleep + Ptdle * Ttdle) * (Port * Toft + Psleep * Tsleep + Ptdle * Ttdle) * (Port * Toft + Psleep * Tsleep + Ptdle * Ttdle) * (Port * Toft + Psleep * Tsleep + Ptdle * Ttdle) * (Port * Toft + Psleep * Tsleep + Ptdle * Ttdle) * (Port * Toft + Psleep * Tsleep + Ptdle * Ttdle) * (Port * Toft + Psleep + Ptdle * Ttdle) * (Port * Toft + Psleep * Tsleep + Ptdle * Ttdle) * (Port * Toft + Psleep + Ptdle * Ttdle) * (Port * Toft + Psleep + Ptdle * Ttdle) * (Port * Toft + Psleep + Ptdle * Ttdle) * (Port * Toft + Psleep + Ptdle * Ttdle) * (Port * Toft + Psleep + Ptdle * Ttdle) * (Port * Toft + Psleep + Ptdle * Ttdle) * (Port * Toft + Psleep + Ttdle) * (Port					$P_{TEC} = 0.35 P_{off} + 0.10 P_{sleep} + 0.55 P_{idle}$	
Typical Energy Consumption ETEC * Annual Energy Consumption 24.7(A) 31.9(B) 32.3(B) 34.9(B) ETEC = (8760/1000) * (Poff * Toff + Psleep * Tsleep + Ptdle * Ttdle) * Display resolution : 1366 x 768 Megapixels Print Speed : Images per minute Default time to enter energy save mode: 25 minutes P9.2* Information about the energy save function is provided with the product. P9.3* The product meets the energy requirements of the following voluntary program/s: ENERGY STAR® version: Version 5.0 dated July 1, 2009 Product category: A, B Others specify: ENERGY STAR® to External Power Supplies Eligibility Criteria Version 2 P10 Emissions Noise emission - Declared according to ISO 9296 P10.1 Mode Mode description Declared according to ISO 9296 Value of the product in the product is provided with the product.	TEC	kWh/week	kWh/week	kWh/week		\vdash
Annual Energy Consumption 31.9(B) 32.3(B) 34.9(B) Errc = (8760/1000) * (Port * Toff + Psleep * Toff + Psle	I = -					
Display resolution : 1366 x 768 Megapixels Print Speed : Images per minute Default time to enter energy save mode: 25 minutes P9.2* Information about the energy save function is provided with the product. P9.3* The product meets the energy requirements of the following voluntary program/s: ENERGY STAR® version: Version 5.0 dated July 1, 2009 Product category: A, B Others specify: ENERGY STAR for External Power Supplies Eligibility Criteria Version 2 P10.1 Mode Mode description Declared A-weighted sound power level L _{WAd} (B) Idle *HDD: Idle *3.1 Declared A-weighted Sound pressure level L _{pAm} (dB) Operation *HDD: Operating Other mode Measured according to: SO7779 ECMA-74 Conty if not covered by ECMA-74 with L _{pAm} measurement distance m)	I	24.7 (A)	24.7 (A)	26.9 (A)	(Desktop, Integrated Desktop, and Notebook Levels)	
Display resolution : 1366 x 768 Megapixels Print Speed : Images per minute Default time to enter energy save mode: 25 minutes P9.2* Information about the energy requirements of the following voluntary program/s: ENERGY STAR® version: Version 5.0 dated July 1, 2009 Product category: A, B Others specify: ENERGY STAR for External Power Supplies Eligibility Criteria Version 2 P10.1 Mode Mode description Declared A-weighted sound power level L _{WAd} (B) Idle *HDD: Idle *3.1 Operation *HDD: Operating Other mode Measured according to: SISO7779 ECMA-74 (only if not covered by ECMA-74 with L _{pAm} measurement distance m)	Annual Energy Consumption	31.9 (B)	32.3 (B)	34.9 (B)	$E_{TEC} = (8760/1000) * (P_{off} * T_{off} + P_{sleep} * T_{sleep} + P_{irle} * T_{irle})$	
Print Speed : Images per minute Default time to enter energy save mode: 25 minutes P9.2* Information about the energy save function is provided with the product. P9.3* The product meets the energy requirements of the following voluntary program/s: ENERGY STAR® version: Version 5.0 dated July 1, 2009 Product category: A, B Others specify: ENERGY STAR for External Power Supplies Eligibility Criteria Version 2 P10 Emissions Noise emission – Declared according to ISO 9296 P10.1 Mode Mode description Declared A-weighted sound power level L _{WAd} (B) Operator position Desktop Or Desk side Operation P10.1 Declared Newsighted sound pressure level L _{PAm} (dB) Operation P10.1 Declared Newsighted Sound pressure level L _{PAm} (dB) Operation Section Sec	Display resolution : 1366 x	768 Megapixels			- steep tale - taley	\vdash
Default time to enter energy save mode: 25 minutes P9.2* Information about the energy save function is provided with the product. P9.3* The product meets the energy requirements of the following voluntary program/s: ENERGY STAR® version: Version 5.0 dated July 1, 2009 Product category: A, B Others specify: ENERGY STAR for External Power Supplies Eligibility Criteria Version 2 P10 Emissions Noise emission – Declared according to ISO 9296 P10.1 Mode Mode description Declared A-weighted sound power level L _{WAd} (B) Operator position Desktop Or Desk point position Desk point or Desk point position Desk po						H
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P9.3* The product meets the energy requirements of the following voluntary program/s: ENERGY STAR® version: Version 5.0 dated July 1, 2009 Product category: A, B Others specify: ENERGY STAR for External Power Supplies Eligibility Criteria Version 2 P10 Emissions Noise emission – Declared according to ISO 9296 P10.1 Mode Mode description Declared A-weighted sound power level L _{WAd} (B) Operator position Desktop Operator position Desktop or Desk side Idle *HDD: Idle *3.1 25 Operation *HDD: Operating 3.7 29 Other mode Measured according to: ISO7779 ECMA-74 Other (only if not covered by ECMA-74 with L _{pAm} measurement distance m)				the product		片
ENERGY STAR® version: Version 5.0 dated July 1, 2009 Product category: A, B Others specify: ENERGY STAR for External Power Supplies Eligibility Criteria Version 2 P10 Emissions Noise emission – Declared according to ISO 9296 P10.1 Mode Mode description Declared A-weighted sound power level L _{WAd} (B) Operator position Desktop Or Desk side Idle *HDD: Idle *3.1 25 Operation *HDD: Operating 3.7 29 Other mode Measured according to: ISO7779 ECMA-74 Other (only if not covered by ECMA-74 with L _{pAm} measurement distance m)			· · · · · · · · · · · · · · · · · · ·	<u> </u>		
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				A-weighted	<u> </u>	
Desktop						-
Idle * HDD: Idle * 3.1 25 Operation * HDD: Operating * 3.7 29 Other mode Measured according to: SO7779 ECMA-74 Other (only if not covered by ECMA-74 with L _{pAm} measurement distance m)				level L_{WAd} (B)		
Operation * HDD: Operating * 3.7 29 Other mode Measured according to: ISO7779 ECMA-74 Other (only if not covered by ECMA-74 with L _{pAm} measurement distance m)					· 🚃 l	
Other mode Measured according to: ISO7779 ECMA-74 Other (only if not covered by ECMA-74 with L _{pAm} measurement distance m)	Idle	* HDD: Idle		* 3.1	25	1
Measured according to: SO7779 ECMA-74 Other (only if not covered by ECMA-74 with L _{pAm} measurement distance m)	·	* HDD: Operating		* 3.7	29]
Other (only if not covered by ECMA-74 with L _{pAm} measurement distance m)	1					1
	Measured accord	_		=0=		
	P10.2 The product meet					_

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Issue date *	2011, February 25	Logo	lenovo

Product 6	environmental attributes - Market requirements (continued)	Require	ment	met
Item		Yes	No	n.a.
	Chemical emissions from printing products			
P10.3*	Test performed according to ECMA-328 (ISO/IEC 28360) standard, other specify:			\boxtimes
P10.4	Typical emission rate (print phase) is (mg/h):			\boxtimes
	Dust Ozone Styrene Benzene TVOC			_
P10.5	Chemical emission requirements of the following voluntary program/s are met for :			\boxtimes
	Dust Ozone Styrene Benzene TVOC			
	Electromagnetic emissions			
P10.6	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	<u> </u>	-	
P11.1*	A Safety Data Sheet (SDS) is available for the ink/toner preparation, even if not legally required (see P4.3).			\boxtimes
P11.2*	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.			\boxtimes
P12	Ergonomics for computing products	<u> </u>		
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*	Product packaging material type(s): Corrugated Cardboard weight (kg): 0.605			
	Product packaging material type(s): Recycled Polyethylene (RLDPE) weight (kg): 0.200			
P13.2*	Product packaging material type(s): <i>Others(Plastic Bags)</i> weight (kg): <i>0.016</i> Product plastic packaging is free from PVC.	\square	$\overline{}$	_
P13.3*	1 1 0 0		Ш	₩
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%.(Japan only 70%)			Ш
P14	Additional information (See Note B4)			
	NOTE: Supplier makes no representations, guarantees, assurances or warranties whether express or implied	, regardi	ng 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 Representa			UII
	information.			
P7.17	Product does not contain free TBBPA in printed circuit boards(without components)>25g.			
P9	See ENERGY STAR Qualified Notebooks & Tablet Computers for the latest information:			
	http://downloads.energystar.gov/bi/qplist/laptops_prod_list.xls			

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