

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 declare (bened or madret exciting or test results based obtained from complete testing) that the madret					
	The company declares (based on product specification or test results based obtained from sample testing), that the product				
conforms to the statement	ts given in this declaration.				
Type of product *	Notebook PC				
Commercial name *	TI I D I I VOCA (VOCA)				
	ThinkPad X220 / X220i				
	THINK GG XZZOT				
Model number *	M/T- 4200/4207/4200/4200/4204/4202/4202				
	M/T: 4286/4287/4289/4290/4291/4292/4293				
Issue date *	2011, February 28				
Intended market *	Global Europe Asia, Pacific & Japan Americas Other				
Additional information	ENERGY STAR® Qualified; EPEAT GOLD Rating*; GREENGUARD Certified				

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Quality Control			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 control such as organized by IT-Företagen (see www.itecodeclaration.org).	ol 🔀	

Model number *	ThinkPad X220 / X220i		
	M/T: 4286/4287/4289/4290/4291/4292/4293		
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Product	duct environmental attributes - Legal requirements				
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.			\boxtimes	
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*	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, medica 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).				
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).			\boxtimes	
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 Ro	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).			Ш
P7	Design Disassembly, recycling			
P7.1*	Parts that have to be treated separately are easily separable		$\overline{}$	$\overline{}$
P7.2*	Plastic materials in covers/housing have no surface coating.			∺
P7.3*	Plastic parts >100g consist of one material or of easily separable materials.		$\frac{\square}{\square}$	∺
P7.4*	Plastic parts >25g have material codes according to ISO 11469 referring ISO 1043.		╫	╫
P7.5			井	井
P7.5*	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.		Щ.	ᄴ
P7.6	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).			
P7.7*	Product lifetime Upgrading can be done e.g. with processor, memory, cards or drives			
P7.8*			井	뿌
	Upgrading can be done using commonly available tools	\boxtimes		Щ.
P7.9.	Spare parts are available after end of production for: 5 years			<u> </u>
P7.10	Service is available after end of production for: 5 years			Ш
D7 44*	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.		X	
P7.13	Electrical cable insulation materials of signal cables are PVC free	\blacksquare	\overline{X}	∺
P7.14	All cover/housing plastic parts >25g are free from chlorine and bromine.			+
P7.15	All printed circuit boards (without components) >25g are halogen free. as defined in IEC61249-2-21. (See		X	₩
17.13	Note B2)	Ш		
P7.16	Flame retarded plastic parts >25g in covers / housings are marked according ISO 1043-4:		$\overline{\Box}$	$\overline{\Box}$
	Marking: FR(40)			
P7.17	Alt. 1			
	Chemical specifications of flame retardants in printed circuit boards >25g (without components):			Ш
	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: Brominated Epoxy Resin See P14			
P7.18	Alt. 1			
	Flame retarded plastic parts >25g contain the following flame retardant substances/preparations in concentrations above 0.1%:			Ш
	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			
	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,	\boxtimes		
D7.00	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 0%. (Assessment is about main computer parts only. Battery, AC adapter, Cords, Drives, Keyboard, LCD, and misc parts not included.)			
P7.21	Of total plastic parts' weight >25g, biobased material content is 0%.			
P7.22	Light sources are free from mercury	\boxtimes		
P8	Batteries			
P8.1*	Battery chemical composition: Lithium Ion/Lithium Manganese Dioxide			
P8.2	Batteries meet the requirements of the following voluntary program/s: US RBRC			

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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	Product 6	Product environmental attributes - Market requirements (continued) Requirement met					met
Peak (On-max)							n.a.
The product is shipped wind. Enabled. Power level at Power level at 100 v AC 115 v	9						
100 VAC							
Category A	Energy mo	de *				97	
Idle State - WOL Enabled 8.99 W 8.07 W 8.91 W Use for ENERGY STAR Registration(P _{amp}) Sleep (S3) - WOL Enabled 1.43 W 1.40 W 1.45 W Use for ENERGY STAR Registration(P _{amp}) Sleep (S3) - WOL Disabled 0.74 W 0.72 W 0.88 W Use for ENERGY STAR Registration(P _{amp}) Off (S5) - WOL Disabled 0.31 W 0.31 W 0.46 W Use for ENERGY STAR Registration(P _{amp}) Off (S5) - WOL Disabled 0.31 W 0.31 W 0.46 W Use for ENERGY STAR Registration(P _{amp}) Off (S5) - WOL Disabled W W W Use for ENERGY STAR Registration(P _{amp}) Sleep (S3) - WOL Enabled W W W Use for ENERGY STAR Registration(P _{amp}) Sleep (S3) - WOL Enabled W W W Use for ENERGY STAR Registration(P _{amp}) Sleep (S3) - WOL Disabled W W W Use for ENERGY STAR Registration(P _{amp}) Sleep (S3) - WOL Disabled W W W Use for ENERGY STAR Registration(P _{amp}) Sleep (S3) - WOL Disabled W W Use for ENERGY STAR Registration(P _{amp}) Sleep (S3) - WOL Disabled W W Use for ENERGY STAR Registration(P _{amp}) Sleep (S3) - WOL Disabled W W Use for ENERGY STAR Registration(P _{amp}) Sleep (S3) - WOL Enabled W Use for ENERGY STAR Registration(P _{amp}) Sleep (S3) - WOL Disabled W Use for ENERGY STAR Registration(P _{amp}) Sleep (S3) - WOL Enabled W Use for ENERGY STAR Registration(P _{amp}) Sleep (S3) - WOL Enabled W Use for ENERGY STAR Registration(P _{amp}) Sleep (S3) - WOL Enabled W Use for ENERGY STAR Registration(P _{amp}) Sleep (S3) - WOL Enabled Sleep (S3) - WOL Enabled W Use for ENERGY STAR Registration(P _{amp}) Sleep (S3) - WOL Enabled Sleep (S	Peak (On-	max)	65/90 W	65/90 W	65/90 W	Full load	
Sieep (S3) - WOL Enabled 1,43 W 1,40 W 1,45 W Use for ENERGY STAR Registration(P _{sept})	Category A						
Sleep (S3) - WOL Disabled 1.06 W 1.14 W 1.25 W Reference	Idle State	- WOL Enabled	8.99 W	8.07 W	8.91 W	Use for ENERGY STAR Registration(Pidle)	
Off (S5) - WOL Enabled 0.74 W 0.72 W 0.88 W Use for ENERGY STAR Registration(P _{oll}) Off (S5) - WOL Disabled 0.31 W 0.31 W 0.46 W Use for ENERGY STAR Registration(P _{sill}) Idle State - WOL Enabled W W W Use for ENERGY STAR Registration(P _{sill}) Steep (S3) - WOL Disabled W W W Reference Off (S5) - WOL Disabled W W W Use for ENERGY STAR Registration(P _{sill}) Off (S5) - WOL Disabled W W W Use for ENERGY STAR Registration(P _{sill}) EYS No-load W W W Use for ENERGY STAR Registration(P _{sill}) (External power supply / charger plugged in the wall outlet but disconnected from the product.) W 0.32 W 0.37 W TEC Typical Energy Consumption kWh/week kWh/week kWh/week ETEC * 28.8 kWh/year 26.2 kWh/year 29.3 kWh/year ETEC = (8760/1000) x (P _{oll} x 0.6 + P _{blog} x 1) TYpical Energy Consumption R _{oll} : Off Mode(S5) - WOL Enabled; P _{blog} : Sleep Mode(S3) - WOL Enabled; P _{blog} : All sleep Mode(S3) - WOL Enabled; P _{blog} : All sleep Mode(S3) - WOL Enabled; P _{blog} : All sleep Mode(S3) - WOL Enabled; P _{blog} : All sleep Mode(S3) - WOL Enabled; P _{blog} : All sleep Mode(S3) - WOL Enable	Sleep (S3)	- WOL Enabled	1.43 W	1.40 W	1.45 W	Use for ENERGY STAR Registration(P _{sleep})	
Category B Idle State - WOL Enabled W W W Use for ENERGY STAR Registration(P _{step}) Step (S3) - WOL Enabled W W W Use for ENERGY STAR Registration(P _{step}) Step (S3) - WOL Enabled W W W W Reference Step (S3) - WOL Disabled W W W W Reference Step (S3) - WOL Disabled W W W W Reference Step (S3) - WOL Disabled W W W W Use for ENERGY STAR Registration(P _{step}) Step (S3) - WOL Disabled W W W W Use for ENERGY STAR Registration(P _{step}) Step (S3) - WOL Disabled W W W W Use for ENERGY STAR Registration(P _{step}) Step (S4) AND STAR Registration(P _{step}) Will Step (S4) AND STAR Registration(P _{step}) Will Step (S4) Will S	Sleep (S3)	- WOL Disabled	1.06 W	1.14 W	1.25 W	Reference	
Category B	Off (S5) - I	WOL Enabled	0.74 W	0.72 W	<i>0.88</i> W	Use for ENERGY STAR Registration(Poff)	
Idle State - WOL Enabled W W W Use for ENERGY STAR Registration(P _{alion}) Steep (S3) - WOL Enabled W W W Reference Steep (S3) - WOL Disabled W W W Reference Steep (S3) - WOL Disabled W W W Use for ENERGY STAR Registration(P _{alion}) Steep (S3) - WOL Disabled W W W Use for ENERGY STAR Registration(P _{alion}) Steep (S3) - WOL Disabled W W W Use for ENERGY STAR Registration(P _{alion}) Steep (S3) - WOL Disabled W W Use for ENERGY STAR Registration(P _{alion}) Steep (S3) - WOL Disabled W W Use for EUP Steep (S4) - W Steep (S4	Off (S5) - I	WOL Disabled	0.31 W	0.31 W	0.46 W	Use for EuP	
Sieep (S3) - WOL Enabled W W W W Reference Sieep (S3) - WOL Disabled W W W W Reference Sieep (S3) - WOL Disabled W W W W Use for ENERGY STAR Registration(P _{sile}) Sieep (S3) - WOL Disabled W W W Use for ENERGY STAR Registration(P _{sile}) Sieep (S5) - WOL Disabled W W W Use for ENERGY STAR Registration(P _{sile}) Sieep (States and power supply / charger plugged in the wall outlet but disconnected from the product. Sieep (States and power supply / charger plugged in the wall outlet but disconnected from the product. Sieep (Sieep (Sieep) (Sieep	Categor	<u>y B</u>					
Sieep (S3) - WOL Disabled W W W W Use for ENERGY STAR Registration(P _{ort}) W W Use for ENERGY STAR Registration(P _{ort}) W Use for ENERGY STAR Re	Idle State	- WOL Enabled	W	W	W	Use for ENERGY STAR Registration(P _{idle})	\boxtimes
Off (S5) - WOL Enabled W W W Use for ENERGY STAR Registration(Pon) X Off (S5) - WOL Disabled W W W Use for EuP X EPS No-load (External power supply / charger plugged in the wall outlet but disconnected from the product.) W 0.32 W 0.37 W Image: Consumption outlet but disconnected from the product.) X X X Image: Consumption outlet but disconnected from the product. X X X Image: Consumption outlet but disconnected from the product. X X Image: Consumption outlet but disconnected from the product. X Image: Consumption outlet but disconnected from the product outlet from the product f	Sleep (S3)	- WOL Enabled	W	W	W	Use for ENERGY STAR Registration(P _{sleep})	\boxtimes
Off (\$5) - WOL Disabled	Sleep (S3)	- WOL Disabled	W	W	W	Reference	\boxtimes
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 Display resolution : 1366 x 768 Megapixels Periot Mode(\$5) - WOL Enabled; Palea; Sleep Mode(\$3) - WOL Enabled; Palea; Idle State - WOL Enabled Display resolution : 1366 x 768 Megapixels Print Speed : Images per minute Default time to enter energy save mode: 20 minutes Pg.2* Information about the energy save function is provided with the product. Pg.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 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 Mode description Mode Declared A-weighted sound pressure level L _{pAm} (dB) Operator positions Desktop Operator attended) Declared A-weighted sound pressure level L _{pAm} (dB) Declared or Declared or Declared or Declared according to ISO 9296 Desktop Operator position Desktop Operator attended) Lidle * HDD: Idle * 3.2	Off (S5) - I	WOL Enabled	W	W	W	Use for ENERGY STAR Registration(Poff)	\boxtimes
(External power supply / charger plugged in the wall outlet but disconnected from the product.) TEC Typical Energy Consumption ETEC* Annual Energy Consumption Pedit Off Mode(\$5) - WOL Enabled; Pulsep: Sleep Mode(\$3) - WOL Enabled; Pulse; Idle State - WOL Enabled Display resolution: 1366 x 768 Megapixels Print Speed: Images per minute Default time to enter energy save mode: 20 minutes Peg.2* Information about the energy save function is provided with the product. Pey.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 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 Mode Mode description Mode Mode description P25 Declared A-weighted sound power level L _{WAd} (B) Operator position By Systander positions or Desk side Operator attended) Desktop Operator attended) Idle *HDD: Idle *3.2	Off (S5) - I	WOL Disabled	W	W	W	Use for EuP	\boxtimes
charger plugged in the wall outlet but disconnected from the product.) TEC Typical Energy Consumption ETEC * Annual Energy Consumption Peri: Off Mode(S5) - WOL Enabled; Psieep: Sleep Mode(S3) - WOL Enabled; Psiee: Idle State - WOL Enabled Display resolution : 1366 x 768 Megapixels Print Speed : Images per minute Default time to enter energy save mode: 20 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 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 Mode description Mode description Declared A-weighted sound power level L _{WAd} (B) Operator position Desktop or Desk side Operator attended) Idle * HDD: Idle * 3.2 25			W	0.32 W	<i>0.37</i> W		
Typical Energy Consumption kWh/week k hold kannel kwh/week kWh/week kwh/week kWh/week kWh/week kWh/week k hold kwh/week khannel kwh/week khannel kwh/week khannel kwh/week khannel kwh/week khannel kwh/week khannel kwh/week khannel kwh/week khannel kwh/week khannel kwh/week	charger plu outlet but d	igged in the wall lisconnected from					
Annual Energy Consumption Post: Off Mode(S5) - WOL Enabled; Paleop: Sleep Mode(S3) - WOL Enabled; Paleop: Idle State - WOL Enabled Display resolution : 1366 x 768 Megapixels	-	ergy Consumption	kWh/week	kWh/week	kWh/week		
Display resolution : 1366 x 768 Megapixels Print Speed : Images per minute Default time to enter energy save mode: 20 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 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 _{pAm} (dB) Operator position Desktop On Desktop On Desk side Only if product is not operator attended) Idle * HDD: Idle * 3.2 25		ergy Consumption	28.8 kWh/year	26.2 kWh/year	29.3 kWh/year		
Print Speed : Images per minute Default time to enter energy save mode: 20 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:			P _{off} : Off Mode(S5) - I	WOL Enabled; P _{sleep} :	Sleep Mode(S3) - WO	DL Enabled; P _{idle} : Idle State - WOL Enabled	
Default time to enter energy save mode: 20 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 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 _{pAm} (dB) Operator position Supstander positions Desktop Operator position Desktop Operator attended) Idle * HDD: Idle * 3.2	Display res	solution : 1366 x 7	68 Megapixels				
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 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_{pAm} (dB) Operator position Bystander positions or Desktop (only if product is not operator attended) Idle * HDD: Idle * 3.2	Print Speed	d :	Images per minut	e			\boxtimes
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 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_{pAm} (dB) Operator position Desktop (only if product is not operator attended) Idle * HDD: Idle * 3.2	Default time	e to enter energy sa	ave mode: 20 minute:	S			
ENERGY STAR® version: Version 5.0 dated July 1, 2009 Product category: A 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_{pAm} (dB) Operator position Desktop On Desk side Only if product is not operator attended) Idle * HDD: Idle * 3.2	P9.2*	Information about	the energy save fund	tion is provided with	the product.		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	P9.3*	ENERGY STAR®	version: Version 5.0	dated July 1, 2009	Product category:	A	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	P10						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				to ISO 9296			
	P10.1	Mode	Mode description		A-weighted		
Desktop ☐ (only if product is not operator attended) Idle * HDD: Idle * 3.2 25					· ·	Operator position Bystander positions	
Idle * HDD: Idle * 3.2 operator attended)					WAG ()	Desktop (aply if product is not	
One and the MDD. One and the state of the st							
· · · · · · · · · · · · · · · · · · ·		Operation * HDD: Operating * 3.5 27		27			
Other mode		L		TOMA 74			
Measured according to: SO7779 ECMA-74 Other (only if not covered by ECMA-74 with L _{pAm} measurement distance		ivleasured accordi	Other		overed by ECMA-74	4 with L _{pAm} measurement distance	
P10.2 The product meets the acoustic noise requirements of the following voluntary program/s:	P10.2	The product meets	,	equirements of the f	ollowing voluntary n	program/s:	

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Product 6	environmental attributes - Market requirements (continued) Re	quire	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:			X
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)		Ш	Ш
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).			\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.			X
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*	Product packaging material type(s): Corrugated cardboard weight (kg): 0.470			
	Product packaging material type(s): <i>Molded Pulp Cushion</i> weight (kg): 0.140			
P13.2*	Product packaging material type(s): <i>Others (plastic bags)</i> weight (kg): <i>0.035</i> Product plastic packaging is free from PVC.		_	
				Щ
P13.3*	Specify media for user and product documentation (tick box): Electronic , Paper , Other			Ш
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, information contained in this document. All information provided by supplier in this document is provided based or			
	knowledge available at the time of completion, and supplier shall have no obligation to update such information.			on
	provided here is approximate and provided for informational purposes only. See a Lenovo Account Representative for more			
	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 * EPEAT Gold – Select Geographies			
	Er En i Gold – Gelecti Geographiles			

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